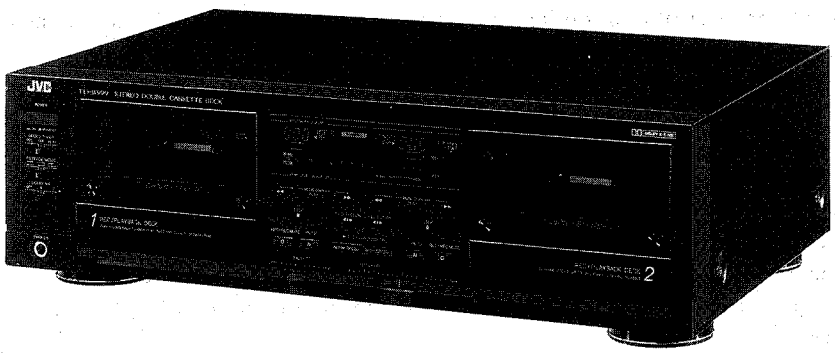
JVC

SERVICE MANUAL

STEREO DOUBLE CASSETTE DECK

TD-W999 A/B/C/E/G/J/U



Area Suffix

A	Australia
B	U.K.
C	Canada
E	Continental Europe
G	West Germany
J	U.S.A.
U	Other Areas

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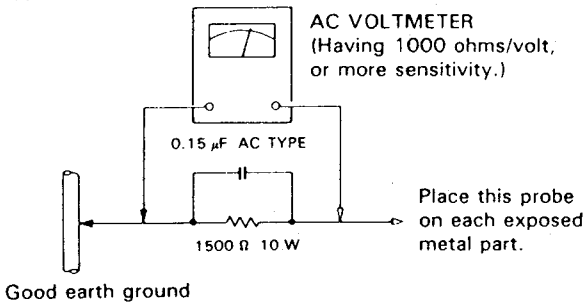
No. 4295
July 1988

1 Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by (⚠) on the Schematic Diagram and Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).


AC VOLTMETER
(Having 1000 ohms/volt, or more sensitivity.)
0.15 μF AC TYPE
1500 Ω 10 W
Place this probe on each exposed metal part.
Good earth ground

Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

4 Name of Controls and Their Functions

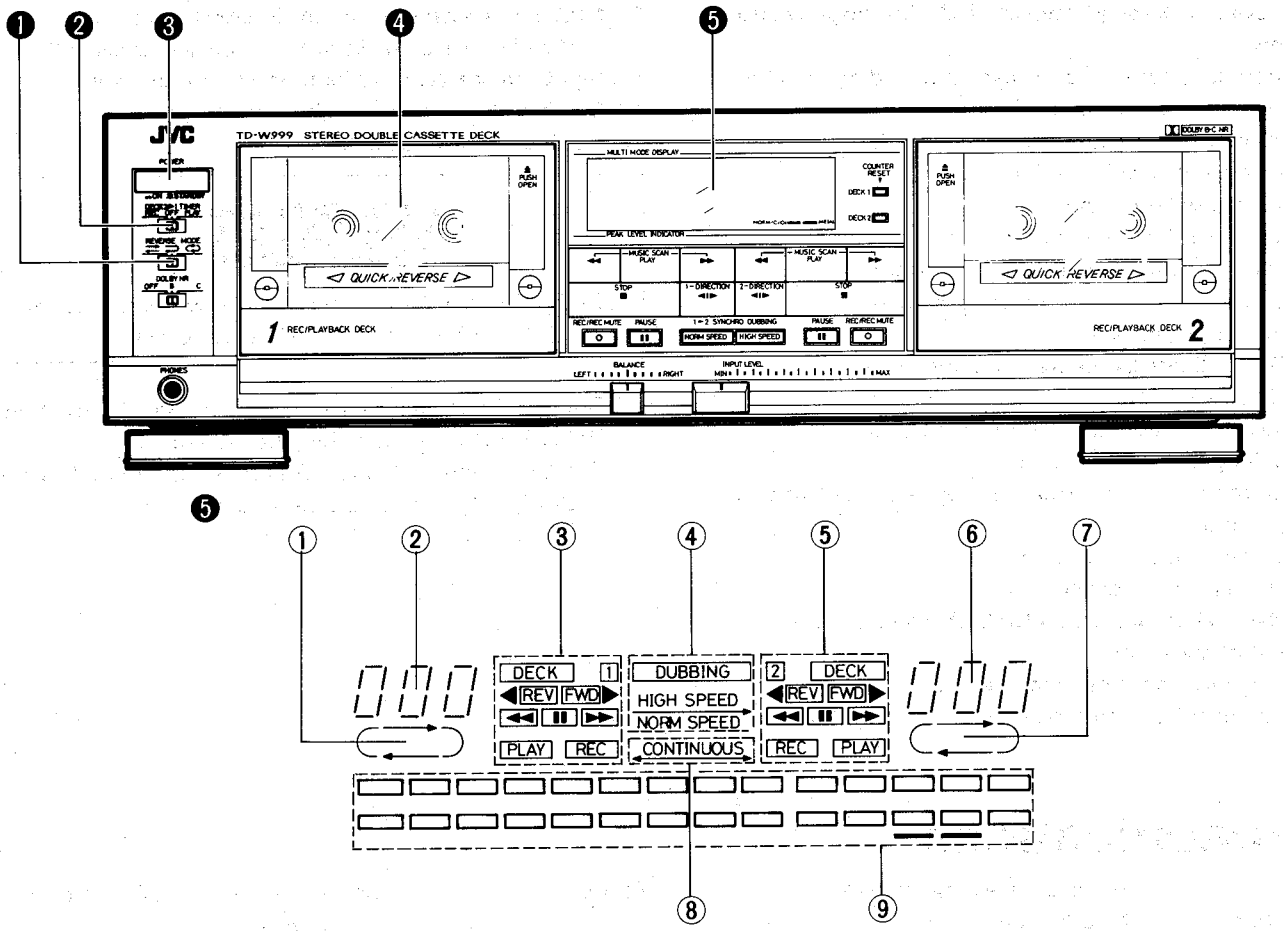


Fig. 4-1

❶ REVERSE MODE switch
Select a single side or full record/playback mode, or continuous play mode.
- ⇄ : For recording or playback only a single side.
- ⊃ : To fully play or record sides A and B.
- ↻ : To play back continuously sides A and B.

❷ TIMER switch (DECK 2 ▶ 1)
When an optional timer is used, recording and playback can be performed at any desired time.

❸ POWER switch

❹ Cassette holder (Deck 1)
Press at the upper right (marked ≜ PUSH OPEN) to open the cassette holder.

❺ Multi mode display

① Reverse mode indicator (Deck 1)

② 2-way digital counter (Deck 1)
The counter reading increases while the tape is running forward and decreases when it is running in reverse. In the Multi Music Scan mode when the ◁◁ (or ▶▶) button is pressed, the number of tunes which will be skipped is displayed.

③ Mechanism mode indicators (Deck 1)
◀ REV FWD ▶ : Indicates the direction of tape travel.
◀◀ ▶▶ : Lights when the tape is fast rewinding/forwarding and during scanning.
PLAY : Lights when the unit is in the playback and record modes.
Blinks when the unit is in the scanning mode.
❚❚ (pause) : Lights when the unit is in the pause mode.
REC : Lights when the unit is in the record, record-pause or record-standby mode.
Blinks during record muting operation.

④ DUBBING indicators
HIGH SPEED : Lights when the unit is in the high-speed dubbing mode.
NORM SPEED : Lights when the unit is in the normal speed dubbing mode.

⑤ Mechanism mode indicators (Deck 2)
All indicators are the same as for deck 1.

⑥ 2-way digital counter (Deck 2)

⑦ Reverse mode indicator (Deck 2)

⑧ CONTINUOUS indicator
This indicator lights when set to continuous mode.

⑨ PEAK LEVEL indicators
These indicators light according to the level of the signal being recorded or the level of the signal recorded on the tape.

2 Features

1. **Twin reverse recording/playback decks for longer recording time**
   - Continuous automatic or manual recording can alternate between decks 1 and 2.
   - Simultaneous synchro recording capability
2. **Auto-reverse mechanism in both decks**
   - Flip reverse head system
   - Quick reverse mechanism using infrared sensor
3. **2-motor full logic mechanism in both decks**
   - Exclusive motor for the mechanism drive
4. **Continuous playback**
5. **DOLBY* B-C NR (Noise Reduction) system**
   - Built-in MPX filter
6. **Centralized display using two-colored LCDs**
   - 2-color peak level indicator
   - Electronic counter displays for each of the two tape mechanisms
   - Mechanism mode indicator
   - Dubbing mode indicator
7. **Auto tape select mechanism for both decks 1 and 2**
8. **Timer start mechanism**
9. **Microcomputer-controlled mechanisms**
   - Auto record muting and synchro record muting
10. **Multi music scan mechanism for either direction**
    "Under License of Staar S.A., Brussels, Belgium"
11. **Input balance slide and input level slide controls**
12. **Synchro start (normal-/high-speed) dubbing**
13. **COMPU LINK Control System**

COMPU LINK
Control System

COMPU LINK control system is the convenient system using SYNCHRO terminals on the rear panel.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
* "DOLBY" and the double-D symbol ⊡⊡ are trademarks of Dolby Laboratories Licensing Corporation.

3 Specifications

Type	: Stereo double cassette deck
Track system	: 4-track, 2-channel
Tape speed	: 1-7/8 inch/sec (4.8 cm/sec)
Frequency response	: (−20 dB recording) Metal tape; 20−18,000 Hz 30−16,000 Hz (± 3 dB) Chrome tape; 20−17,000 Hz 30−15,000 Hz (± 3 dB) Normal tape; 20−16,000 Hz 30−15,000 Hz (± 3 dB)
S/N ratio	: 58 dB (S = 1 kHz, K3 = 3%, N = A-weighted, Metal tape) The S/N is improved by about 15 dB at 500 Hz and by max. 20 dB at 1 kHz ~ 10 kHz with Dolby C NR on and improved by 5 dB at 1 kHz and by 10 dB at above 5 kHz with Dolby B NR on
Improvement of MOL	: 4 dB at 10 kHz with Dolby C NR on
Wow and flutter	: 0.08% (WRMS)
Channel separation	: 40 dB (1 kHz)
Crosstalk	: 60 dB (1 kHz)
Harmonic distortion	: K3; 0.5%, THD; 1.0% (Metal tape, 1 kHz, 0 VU)
Heads	: METAPERM head for recording/playback, 2-gap ferrite head for erasure, Combination head x 1 (for both decks 1 and 2)
Motors	: Electronic governed DC motor for capstan x 1 DC motor for reel x 1 DC motor for mechanism drive x 1 (for both decks 1 and 2)
Fast forward/ Rewind time	: Approx. 100 sec with C-60 cassette
Input terminals	
LINE IN (x 1 circuit)	: Min. input level; 80 mV Input impedance; 50 kΩ
Output terminals	
LINE OUT (x 1 circuit)	: Output level; 300 mV Output impedance; 5 kΩ
PHONES x 1	: Output level; 0.3 mW/8 Ω Matching impedance; 8 Ω ~ 1 kΩ
Other terminals	: COMPU LINK-1/SYNCHRO x 2
Power requirement	
TD-W999A/B/E/G	: AC 240/220/120 V, 50/60 Hz
TD-W999C/J	: AC 120 V, 60 Hz
TD-W999U	: AC 230/127/110 V, 50/60 Hz
Power consumption	: With power switch on; 25 W With power switch standby; 1.2 W
Dimensions (W x H x D)	: 435 x 133 x 280 mm (17-3/16" x 5-1/4" x 11-1/16")
Weight	: 4.7 kg (10.4 lbs)
Accessories	: Pin plug cord . . . . . 2 Remote cable 1

Design and specifications are subject to change without notice.

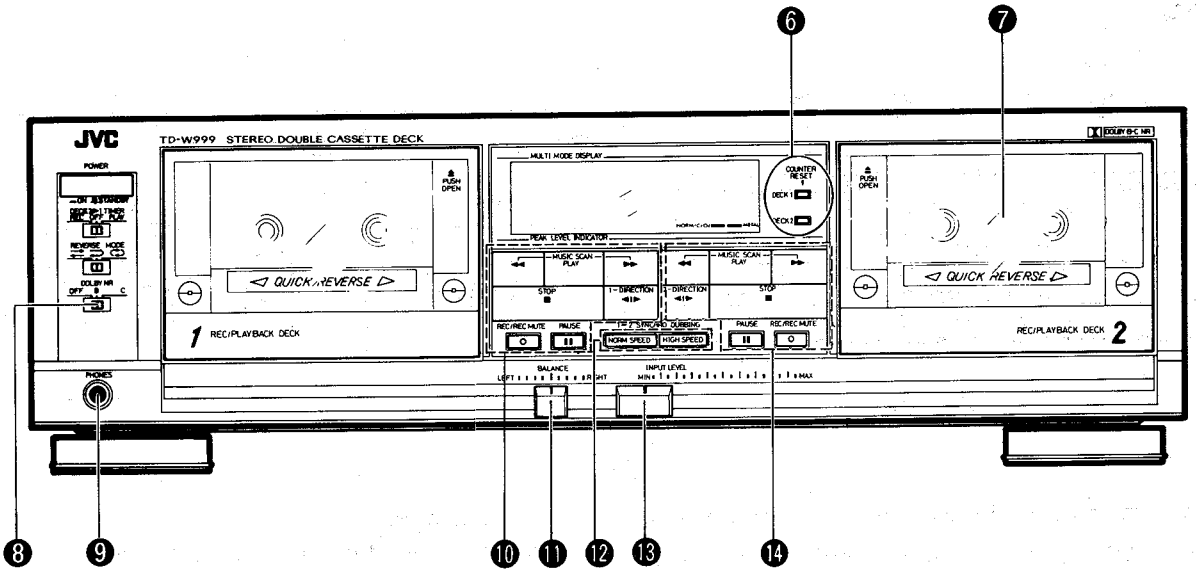


Fig. 4-2

6 COUNTER RESET buttons

7 Cassette holder (Deck 2)

Press at the upper left (marked ▲ PUSH OPEN) to open the cassette holder.

8 DOLBY NR switch

Set to B or C for recording using the Dolby NR system or for playing back a tape that was recorded using the Dolby NR system. Set to OFF when the Dolby NR system is not used.

9 Headphone jack (PHONES)

Connect headphones (with an impedance of 8 Ω to 1 kΩ).

10 Cassette operation buttons (Deck 1)

◀◀ : Press to fast wind the tape from right to left. This button is used to set the number of tunes which are to be skipped in music scan operation.

PLAY : Press to play back the tape. Press this button with either the ◀◀ or ▶▶ button for music scanning.

▶▶ : Press to fast wind the tape from left to right. This button is used to set the number of tunes which are to be skipped in music scan operation.

■ **STOP**: Press to stop the tape.

◀ I ▶ **1-DIRECTION**: Press to change the direction of tape travel.

○ **REC/REC MUTE**: Press the PLAY button while pressing this button for recording, and press to leave an appropriate non-recorded section.

II **PAUSE** : Press to stop the tape temporarily during recording and playback. Press the PLAY button to release the pause mode.

11 Input BALANCE control

Adjust the balance between the left and right channels of recording input levels. The center click position is the standard position.

12 SYNCHRO DUBBING buttons

Press to dub from deck 1 to deck 2.

- **NORM SPEED** : Press to perform normal-speed dubbing.
- **HIGH SPEED** : Press to perform high-speed dubbing.

13 INPUT LEVEL control

Adjust the recording level with this control.

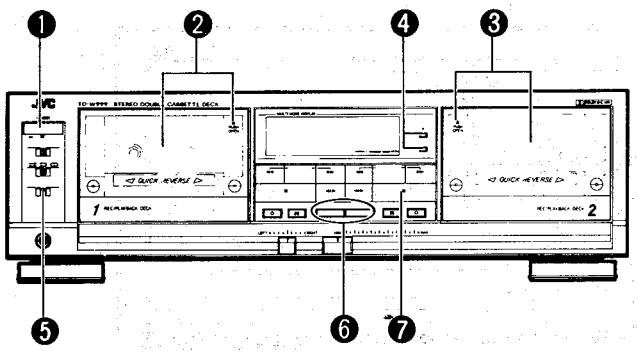
14 Cassette operation buttons (Deck 2)

For the operations of the buttons, refer to " 10 Cassette operation buttons (Deck 1)".

■ **STOP** : Press to stop dubbing.

DUBBING

- **Synchro dubbing**



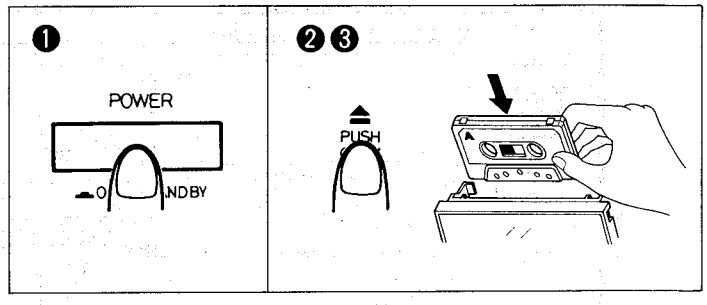


Fig. 4-3

— Operate in the order of the numbers in the illustration —

- Set the TIMER switch to OFF before switching the power on.

1 Press the POWER switch to ON.
2 Insert a prerecorded tape into deck 1 with side A facing out and press the 1-DIRECTION button to select the tape travel direction.
3 Insert the blank tape with side A facing out into deck 2, and press the 2-DIRECTION button to select the side to be recorded.
4 Push the COUNTER RESET button to reset to "000".
5 Set the DOLBY NR switch to OFF.
6 Press the SYNCHRO DUBBING (NORM or HIGH SPEED) button to start dubbing.
7 Press the □ STOP button of deck 2 to stop dubbing.

If you switch deck 2 to any other mode during dubbing, the dubbing mode is automatically released.

- **Synchro record muting**
  When deck 1 stops or enters any mode other than the playback mode during dubbing, deck 2 enters the record mute operation automatically and then enters the record-pause mode.
- **Before pressing the SYNCHRO DUBBING button**
  Confirm that deck 2 is in the stop mode before starting dubbing.

Dubbing and DOLBY NR switch
The dubbed copy will be NR-encoded with the same Dolby NR mode as that of the original tape even when dubbing is performed with the DOLBY NR switch off.

Input level
Recording is performed at the same level as the playback tape during dubbing regardless of the position of the INPUT LEVEL control.

Notes at dubbing
1. Normal-speed dubbing is recommended to obtain good sound quality.
2. When operating in the high-speed dubbing mode, this unit may cause television interference. If this happens, either turn off the television set or use the normal-speed dubbing mode.

Tape editing
Use the multi-scan facility of deck 1 and synchro normal-speed dubbing facility for tape editing to make your own original tapes.

- **Procedure**

1. Scan to the required tune with deck 1.
2. Press the NORM SPEED dubbing button to start the dubbing.
3. When the deck 1 tune finishes, scan to the next tune. Deck 2 automatically enters the record muting mode and leaves a non-recorded section of about 4 seconds then enters the record-paue mode.
4. After scanning, press the NORM SPEED dubbing button again to start the dubbing of the next tune.

Repeat these operations to edit your favorite tunes in any required order.

5 Location of Main Parts

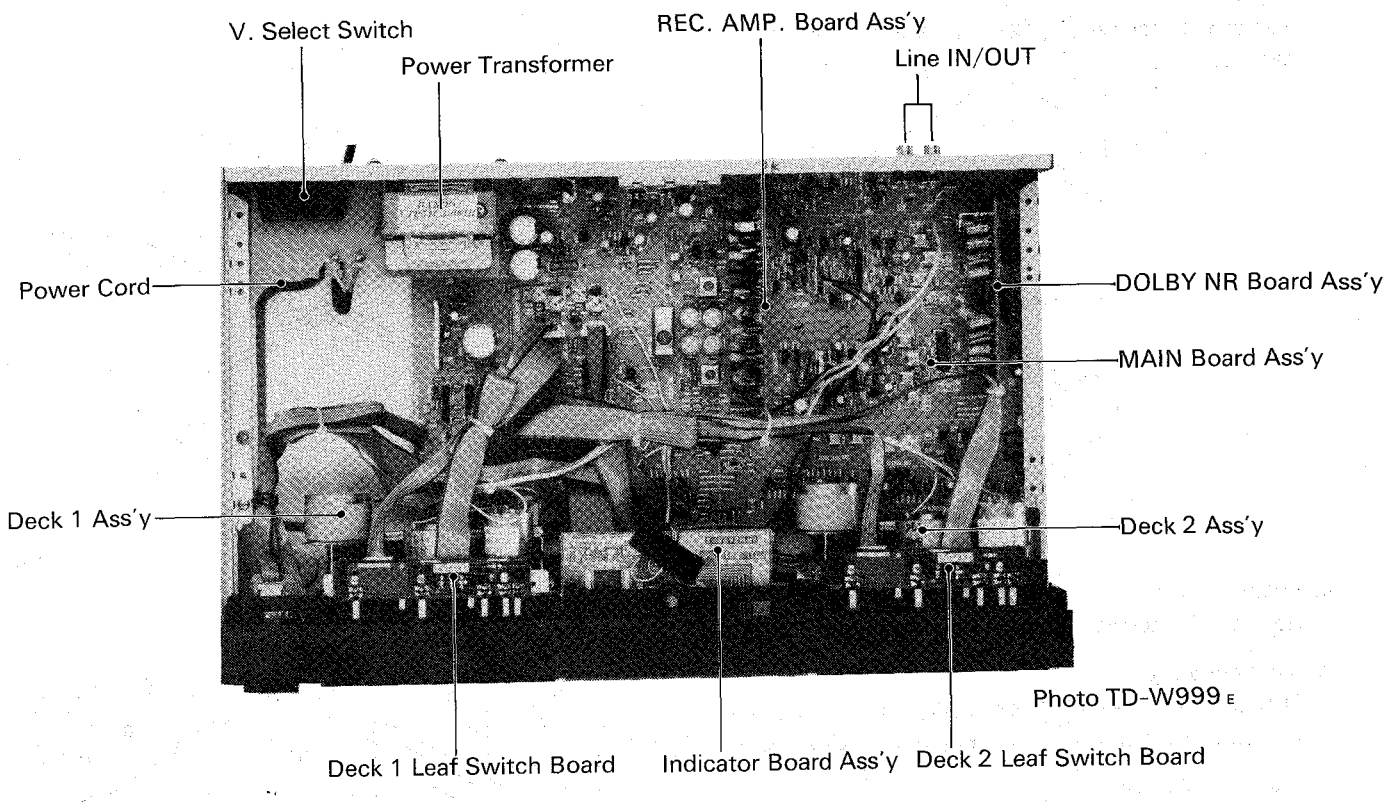


Fig. 5-1

6 Removal of Main Parts

■ Enclosure Section

1. Top cover

Remove six screws ①, ② retaining the both sides and back side.

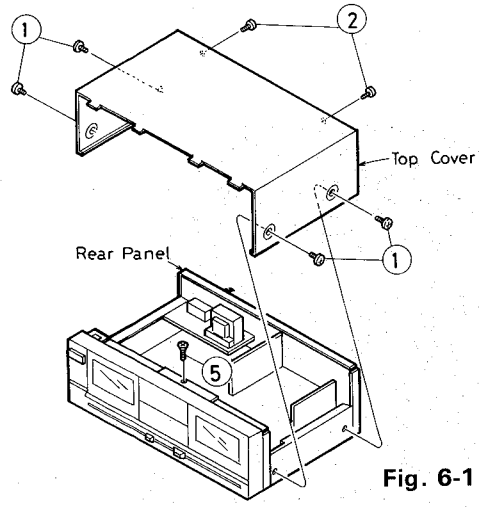


Fig. 6-1

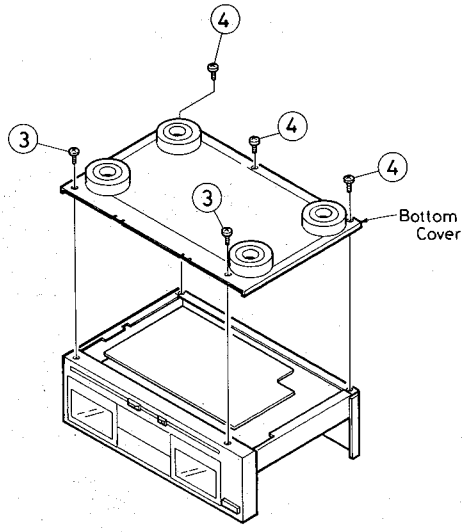


Fig. 6-2

2. Bottom cover

Remove five screws ③, ④ retaining the bottom cover.

3. Indicator ass'y

1) Disconnect the connector (CN601) on the main board.
2) Remove one screw ⑤ retaining the indicator ass'y.

4. Front panel ass'y

1) Remove four screws ⑥ retaining the both sides of the front panel ass'y.
2) Remove one screw ⑦ retaining the main board ass'y to the mechanism ass'y from bottom side.
3) If necessary, remove the wire holder and the connectors.

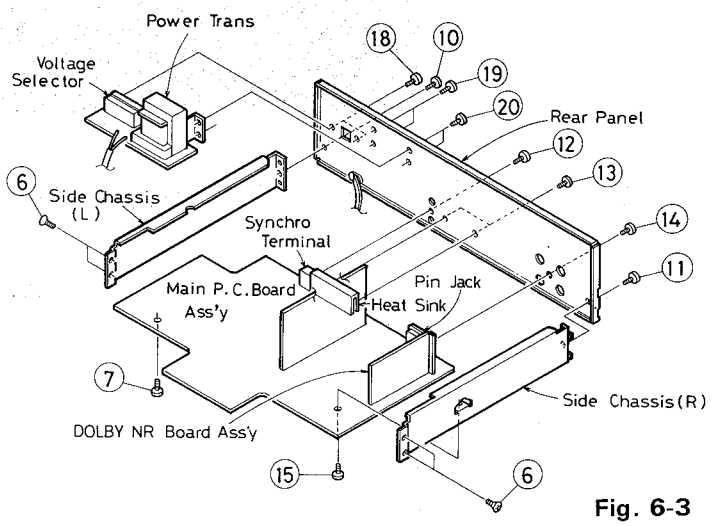


Fig. 6-3

5. Mechanism ass'y (common use of Deck [1] and Deck [2])

1) Remove four screws ⑧, ⑨ retaining the mechanism ass'y from back and bottom.
2) Disconnect the connectors ([CN501 or CN502], [CN801 or CN802], [CN604 or CN605]).
3) Remove three screws ⑩ retaining the leaf switch board ass'y.
4) The mechanism ass'y can be drawn out by opening the door.

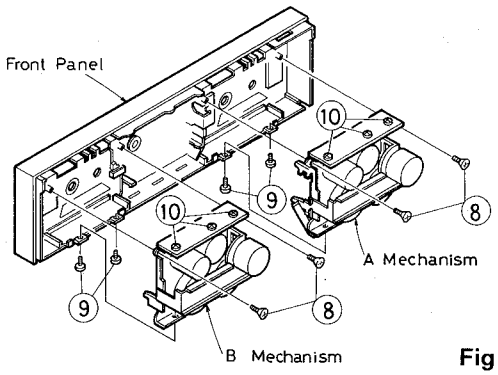


Fig. 6-4

6. Power/Dolby NR/Timer/Reverse mode switch ass'y

Remove three screws ⑪ retaining the switch ass'y.

7. Volume board ass'y

Remove one screw ⑫ retaining the VR board ass'y.

8. Operation switch board

1) Remove one screw ⑬ retaining the operation switch board ass'y.
2) Remove seven pawls ⑭ retaining the switch board ass'y.
3) Remove one screw ⑯ retaining the counter switch board.

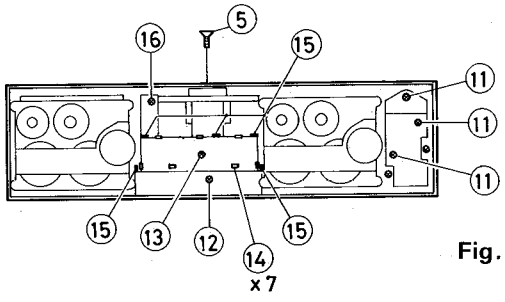


Fig. 6-5

9. Control button ass'y

Remove five pawls ⑮ retaining the button ass'y.

■ Mechanism Section

- **Head ass'y**
  Remove two screws ① retaining the head ass'y.
  For removing the head only, remove two screws securing it from the head gap side. (To do the work easily, heat the bonded parts beforehand.)

- **Re-assembling**
  1. Set the head lever to be positioned as shown in the figure.
  2. Arrange head wires and apply locking bond.

- **Pinch roller ass'y**
  Push a pawl catching the pinch roller ass'y on the chassis in the direction of the arrow mark (see figure) to remove it.

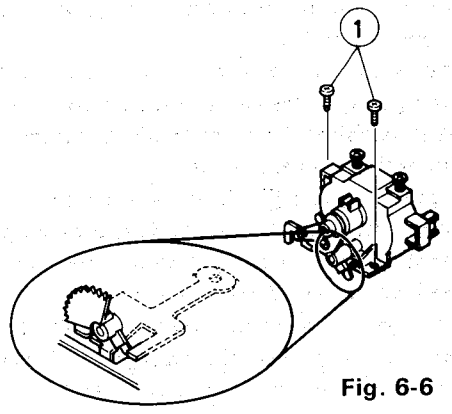


Fig. 6-6

- **Flywheel bracket (FM bracket)**
  1) Remove two screws ⑥ securing the lock arm.
  2) Remove two screws ② securing the flywheel bracket from the both sides.

  When the FM bracket is removed, the main belt is disengaged at the same time.
  The capstan motor and flywheel ass'y can be replaced by this procedure.

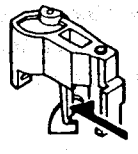


Fig. 6-7

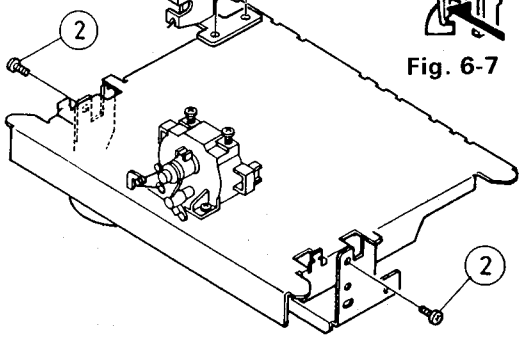


Fig. 6-8

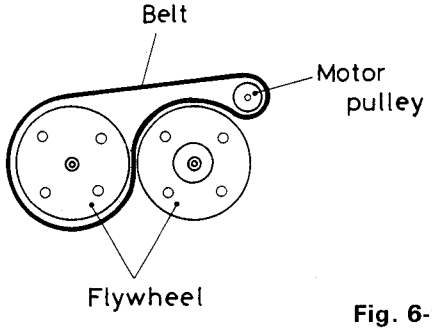


Fig. 6-9

- **Disk base unit**
  Remove three screws ③, ④ and ⑤ securing the disk base unit.

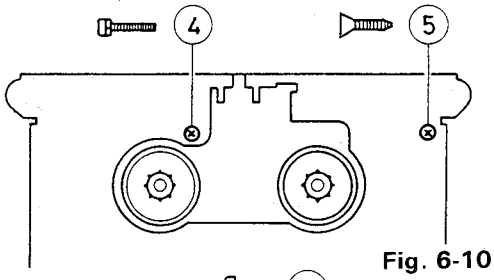


Fig. 6-10

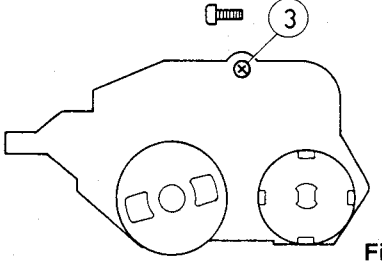


Fig. 6-11

- **Re-assembling of disk base unit**

1. Re-assemble the disk base unit in order of numbers (①–⑤) shown in the figure.
   a) When setting the cam gear ①, make sure of its positioning so that the gear's wide side makes a right angle with the disk while its small side is in parallel with the disk as shown in the figure.
   b) Engage the gears ②, ③ and ④ each other.
   c) When putting back the head base cam 5 , pay careful attention to positioning it so that big and small concaves are paralleled with the disk.
2. Turn the gear 2 ④ in the direction of the arrow mark, and stop turning when the cam gear ① and the head base cam ⑤ are free from each other (slit of the head base cam can be seen on the opposite side).

- **Fixing disk base unit to chassis**

Join together the head base cam and the pinch roller cam so as to catch on each other by the slits.

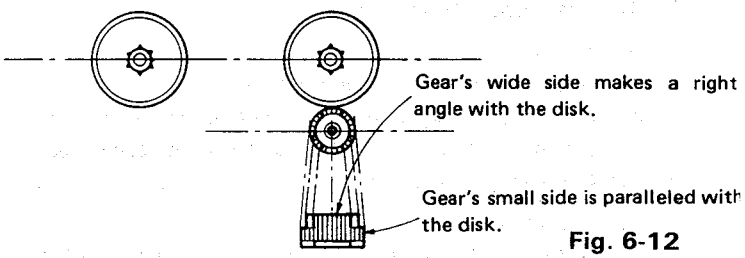


Fig. 6-12

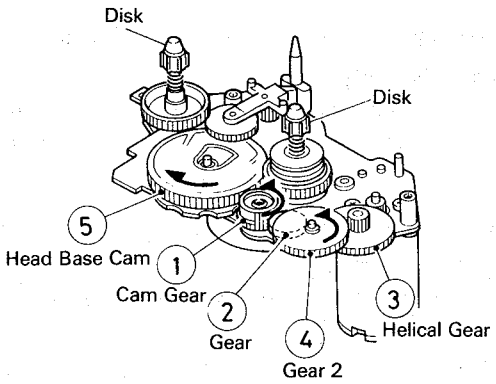


Fig. 6-13

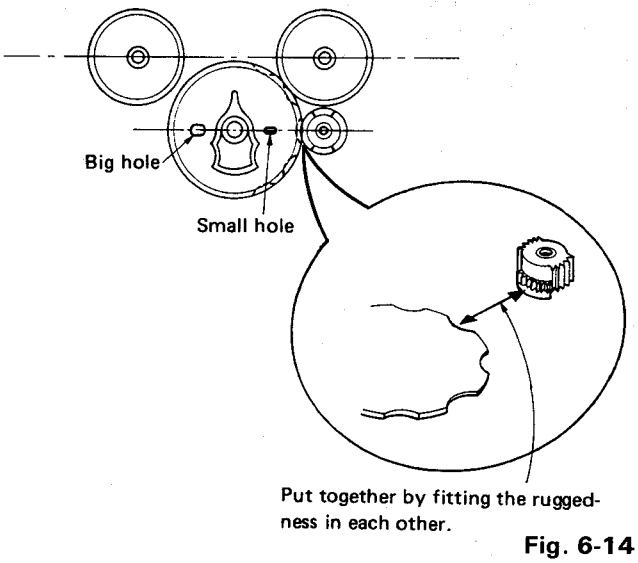


Fig. 6-14

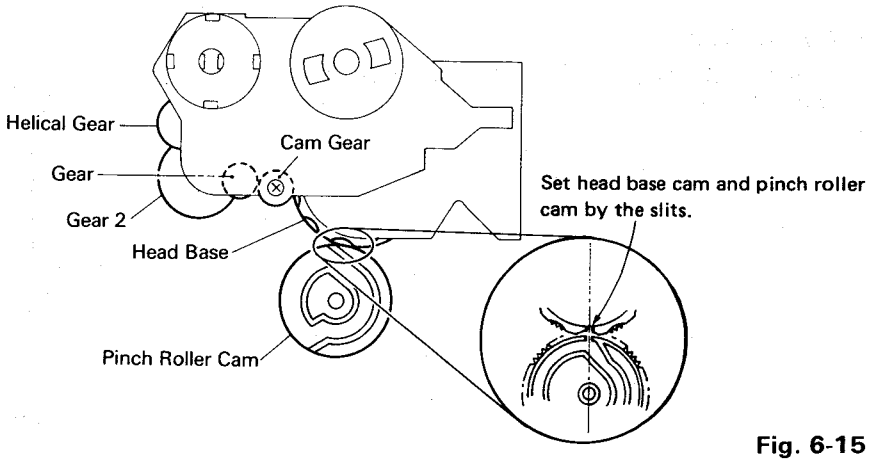
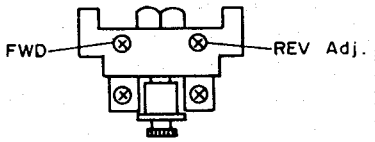


Fig. 6-15

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting Head azimuth	1. Connect an electronic voltmeter to the LINE OUT terminals. 2. Playback the VTT703L test tape. 3. Adjust the head angle with the screw (FWD and REV) until the reading of the electronic voltmeter becomes maximum for both channels.	Screws (FWD, REV)	Maximum	deck [1] and deck [2] 

3. Electrical adjustments location

- **Main Amp. P.C. Board (parts assembly side view)**

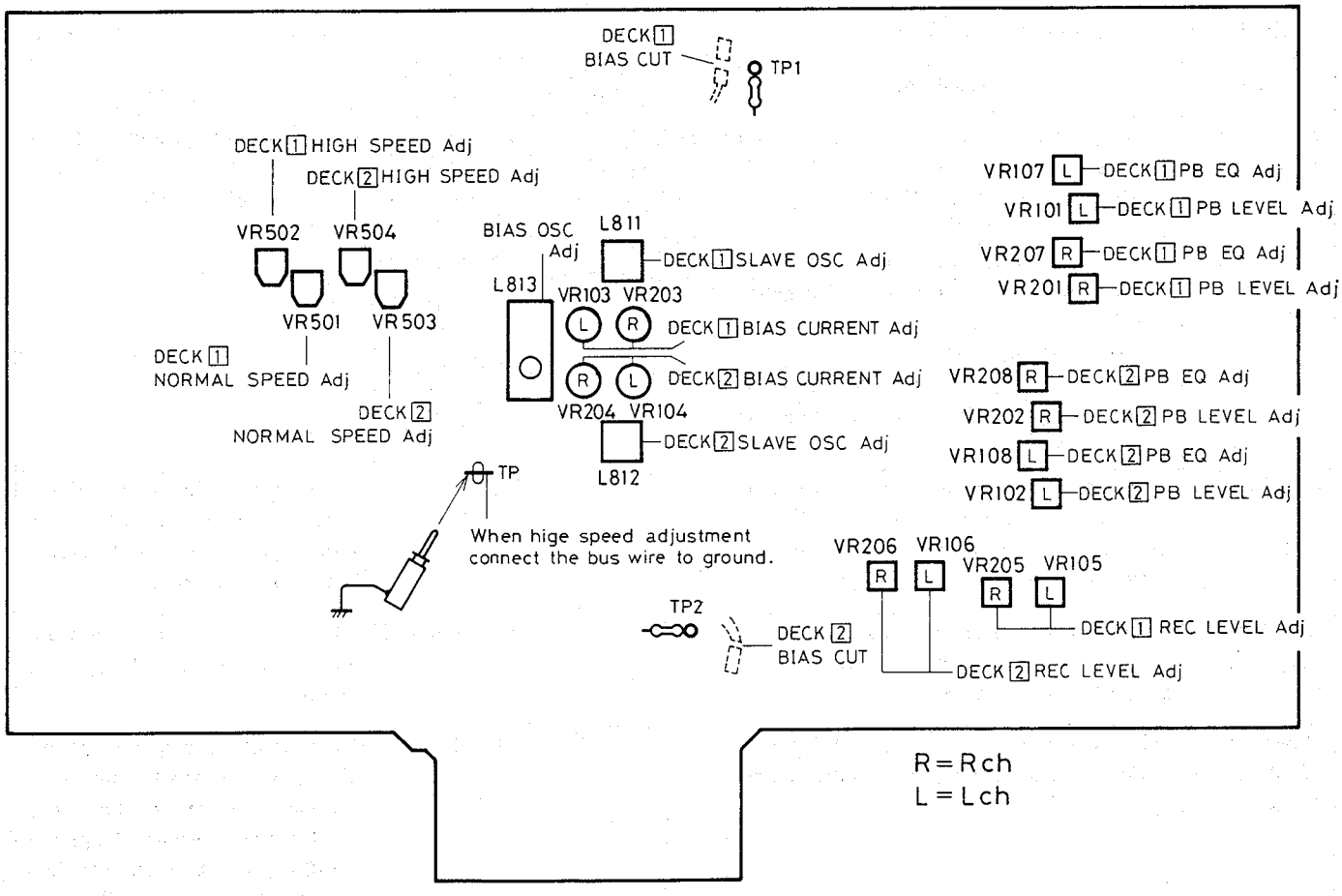

DECK [1] BIAS CUT
TP1
DECK [1] HIGH SPEED Adj
DECK [2] HIGH SPEED Adj
VR502 VR504
VR501 VR503
DECK [1] NORMAL SPEED Adj
DECK [2] NORMAL SPEED Adj
BIAS OSC Adj
L811
DECK [1] SLAVE OSC Adj
L813
VR103 VR203
DECK [1] BIAS CURRENT Adj
DECK [2] BIAS CURRENT Adj
VR204 VR104
DECK [2] SLAVE OSC Adj
L812
TP
When hige speed adjustment connect the bus wire to ground.
TP2
DECK [2] BIAS CUT
VR107 [L] DECK [1] PB EQ Adj
VR101 [L] DECK [1] PB LEVEL Adj
VR207 [R] DECK [1] PB EQ Adj
VR201 [R] DECK [1] PB LEVEL Adj
VR208 [R] DECK [2] PB EQ Adj
VR202 [R] DECK [2] PB LEVEL Adj
VR108 [L] DECK [2] PB EQ Adj
VR102 [L] DECK [2] PB LEVEL Adj
VR206 VR106
VR205 VR105
DECK [1] REC LEVEL Adj
DECK [2] REC LEVEL Adj
R = Rch
L = Lch

Fig. 7-1

7 Main Adjustments

1. Equipment and measuring instruments used for adjustments

1) Electronic voltmeter
2) Audio frequency oscillator
   (range: 50—20 kHz and output 0 dB with impedance of 600 Ω)
3) Attenuator (impedance: 600 Ω)
4) Standard tape for REC/PB
   Maxell UD (TS-9) — Normal (SF) tape
   TDK SA — Chroma (SA) tape — or equivalent
   JVC ME — Metal tape
5) Reference tape for playback (JVC Test Tape)
   VTT712 (for tape speed, wow flutter adj.)
   VTT724 (for playback level)
   VTT739 (for playback frequency response)
   VTT703L (10 kHz) (for head azimuth adj.)
6) Resistor 600 Ω (for attenuator matching)
7) Distortion meter (bandpass filter)
8) Torque testing cassette gauge, CTG-N
9) Wow flutter meter
10) Frequency counter
11) M-300 gauge

■ **Power sources**

Set the line voltage selector switch to 240 V/230 V/220 V/127 V/120 V/110 V according to your local voltage.

AC 240 V, 50/60 Hz (TD-W777A/B)
AC 220 V, 50/60 Hz (TD-W777E/G)
AC 120 V, 60 Hz (TD-W777C/J)
AC 230 V/127 V/110 V, 50/60 Hz (TD-W777U)

2. Mechanism adjustment procedure

● Notice: 0 dBs = 0.775 (V)

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting motor speed	1. Connect a frequency counter to the LINE OUT terminals. 2. Play back the VTT712 test tape. 3. Adjust for deck [1]: Adjust VR501 for normal speed at 3015 Hz, and VR502 for high speed at 6015 Hz. Adjust for deck [2]: Adjust VR503 for normal speed at 3015 Hz, and VR504 for high speed at 6015 Hz.	Deck [1]: Normal; VR501 High; VR502 Deck [2]: Normal; VR503 High; VR504	Normal speed: Deck [1]; 3015±15Hz Deck [2]; 3015±15Hz High speed: Deck [1]; 6015±15Hz Deck [2]; 6015±15Hz	For adjusting high speed, TP bus wire should be grounded. Adjust high speed after perform normal speed.
Checking wow and flutter	Connect a wow and flutter meter to LINE OUT terminals. Play back the VTT712 test tape. Check to see if the reading of the meter is within 0.15% (WRMS).		0.15% (WRMS)	If the reading becomes moving value even if confirming to the standard, a reclaim may be raised. Repairs are necessary.
Checking playback torque	Employ a torque testing cassette tape for the checking, or remove the cassette cover and use a torque gauge.		30—70 gr-cm	If the standard torque is not obtained, replace the take-up disk assembly.
Checking fast forward torque	Measure the torque in the fast forward mode in the same manner as in the above.		70—200 gr-cm	If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the idler circumference, the motor pulley, the take-up reel disk circumference, the flywheel circumference, etc. 2. Replace the belt and idler.
Checking rewind torque	Measure the torque in the rewind mode in the same manner as in the above.		70—200 gr-cm	If the standard torque is not obtained, clean the capstan belt, idler, motor pulley, flywheel circumference, rewinding idler circumference, left reel disk circumference, etc.

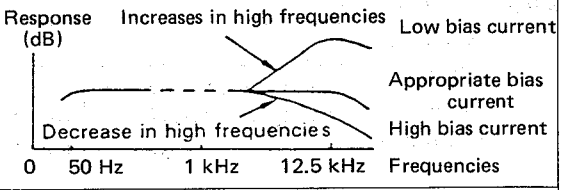
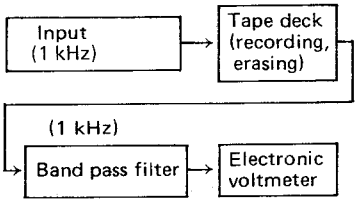
4. Electrical circuit adjustment procedure

Perform the tape transport checks and head azimuth adjustment before following checks and adjustments.
Adjustment should be performed in the order of alignment steps.
In the steps marked with an asterisk (*), adjustment should be performed after replacing the heads.
Perform this adjustment with the NR switch set to OFF.

Notice : 0 dBs = 0.775 V

Step	Item	Check and Adjustment			
1	Checking DOLBY circuit (Rec mode) (BIAS - CUT)			Input signal (Frequency, level)	Output raise value, deviation value
		Signal input: LINE IN Cal. level: 400 Hz, −8 dBs Output terminal: NR. TP ICA01 (21) & (22)	DOLBY B (Rec)	1 kHz, Cal. −40 dB	+5.7 dB ± 2 dB
				5 kHz, Cal. −20 dB	+3.5 dB ± 1.5 dB
				1 kHz, Cal.	0 dB $^{+0.5}_{-1.0}$ dB
			DOLBY C (Rec)	1 kHz, Cal. −40 dB	+16.2 dB $^{+3}_{-2}$ dB
				5 kHz, Cal. −20 dB	+2.9 dB ± 2.5 dB
				1 kHz, Cal.	0 dB ± 1 dB

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
*2	Confirming playback gain	Play back VTT724, then confirm that the level at LINE OUT is −8 dBs ± 0.5 dB. Adjust VR101, VR201 and VR102, VR202 so that LINE OUT level becomes −8 dBm.	Deck [1] L : VR101 R : VR201 Deck [2] L : VR102 R : VR202	−8 dBs ± 0.5 dB	When the head is replaced, adjust playback gain level. Headphone output: −24 ± 2 dBs
*3	Playback frequency response	Play back VTT739, then confirm that the level of 1 kHz and 10 kHz signals is 1 ± 0.5 dB (Deck [1]) and 0.5 ± 0.5 dB (Deck [2]). Adjust VR107, VR207 and VR108, VR208 so that 10 kHz signal and 1 kHz signal gains become flat response.	Deck [1] L : VR107 R : VR207 Deck [2] L : VR108 R : VR208	Deck [1] : 1 ± 0.5 dB Deck [2] : 0.5 ± 0.5 dB	
*4	Adjusting bias frequency	Connect the frequency counter to the C126 or C128 lead through a 1.2 MΩ resistor, then adjust L803 so that the counter reads 95 kHz.	L813	95 kHz ± 1 kHz	METAL position
5	Bias current adjustment	Deck [1] : Adjust L811 to obtain the maximum voltage at TP1 in the recording mode. Deck [2] : Adjust L812 to obtain the maximum voltage at TP2 in the recording mode.	Deck [1] : L811 Deck [2] : L812	Max. output	METAL position

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
*6	Recording frequency response	1) NR switch: OFF 2) Record a 1 kHz signal at an input reference level of −20 dB, then record 50 Hz and 12.5 kHz signals and play them back. At this time, adjust VR103, VR203 and VR104, VR204 so that the deviation of 12.5 kHz outputs satisfy the standard values with respect to 1 kHz output.	For Normal tape: Deck [1] ; L : VR103 R : VR203 Deck [2] ; L : VR104 R : VR204	With respect to 1 kHz reference: At 12.5 kHz, 1.0 ± 0.5 dB	CrO_2 tape: 12.5 kHz, 0 ± 2 dB Metal tape: 12.5 kHz, 0 ± 2 dB 
*7	Recording gain	1) Apply a 1 kHz signal to the LINE IN terminals, record a 1 kHz signal at −20 dBs input for both (L and R) channels on a normal tape. 2) Play back the recorded part, and adjust the recording level controls so that LINE OUT terminal level becomes −8 dBs. Then adjust VR105, VR205 and VR106, VR206 so that LINE OUT terminal level becomes −8 dBs.	For Normal tape: Deck [1] ; L : VR105 R : VR205 Deck [2] ; L : VR106 R : VR206	Normal: −8 ± 0.5 dBs CrO_2 : −8 ± 2 dBs Metal: −8 ± 2 dBs	Perform the adjustment using a normal tape. Level difference between recording and playback for CrO_2 and metal tape should be less than 2 dB, and that between left and right channels should also be less than 1 dB.
*8	Checking record/ playback distortion	1) Record a 1 kHz, −20 dBs signal to LINE IN terminals. 2) Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value.		Normal tape: Less than 2% CrO_2 tape: Less than 3% Metal tape: Less than 2% (THD)	Be sure to perform this checking following bias current and recording level checking.
9	Checking signal to noise ratio in recording/ playback	1) Record a 1 kHz, −20 dBs signal. Stop the input by disconnecting from the terminal to perform non-signal recording. 2) Play back the recorded part. Measure the −8 dBs recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value.		Normal, CrO_2 & Metal tapes: More than 42 dB	Apply an input level to LINE IN terminals with the recording level controls set to maximum so that the peak level indicator reads 0 dB.
10	Checking erasing coefficient	1) Apply a 1 kHz, −20 dBs signal to the LINE IN terminals. 2) Perform recording with the signal enhanced by 20 dB. 3) Erase a part of the recording. 4) Measure the output difference between the erased part and non-erased part to compare with an electronic voltmeter.		More than 65 dB	For the measurement using a metal tape, connect a band pass filter between the deck and the electronic voltmeter. 

8 Wiring Connections

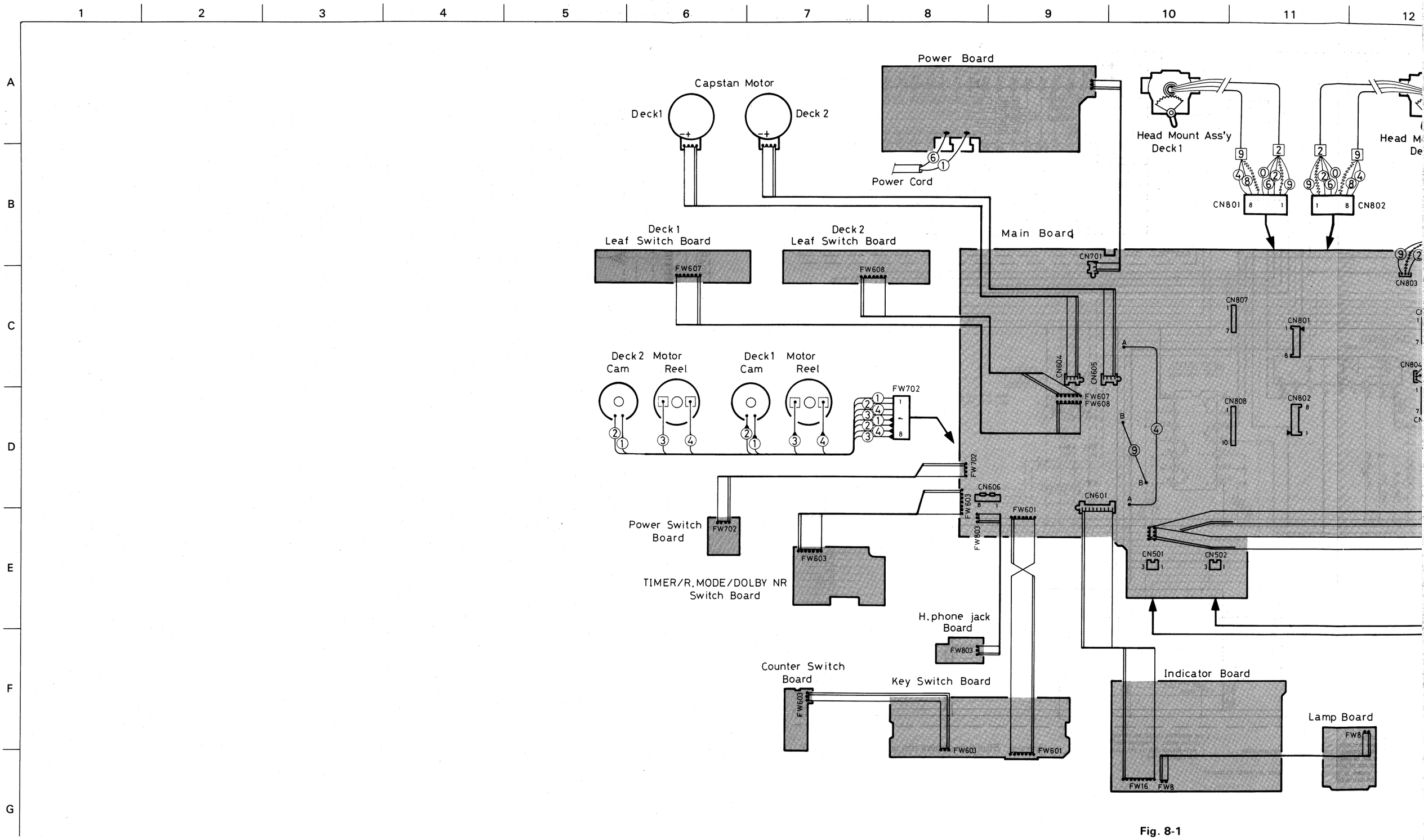


Fig. 8-1

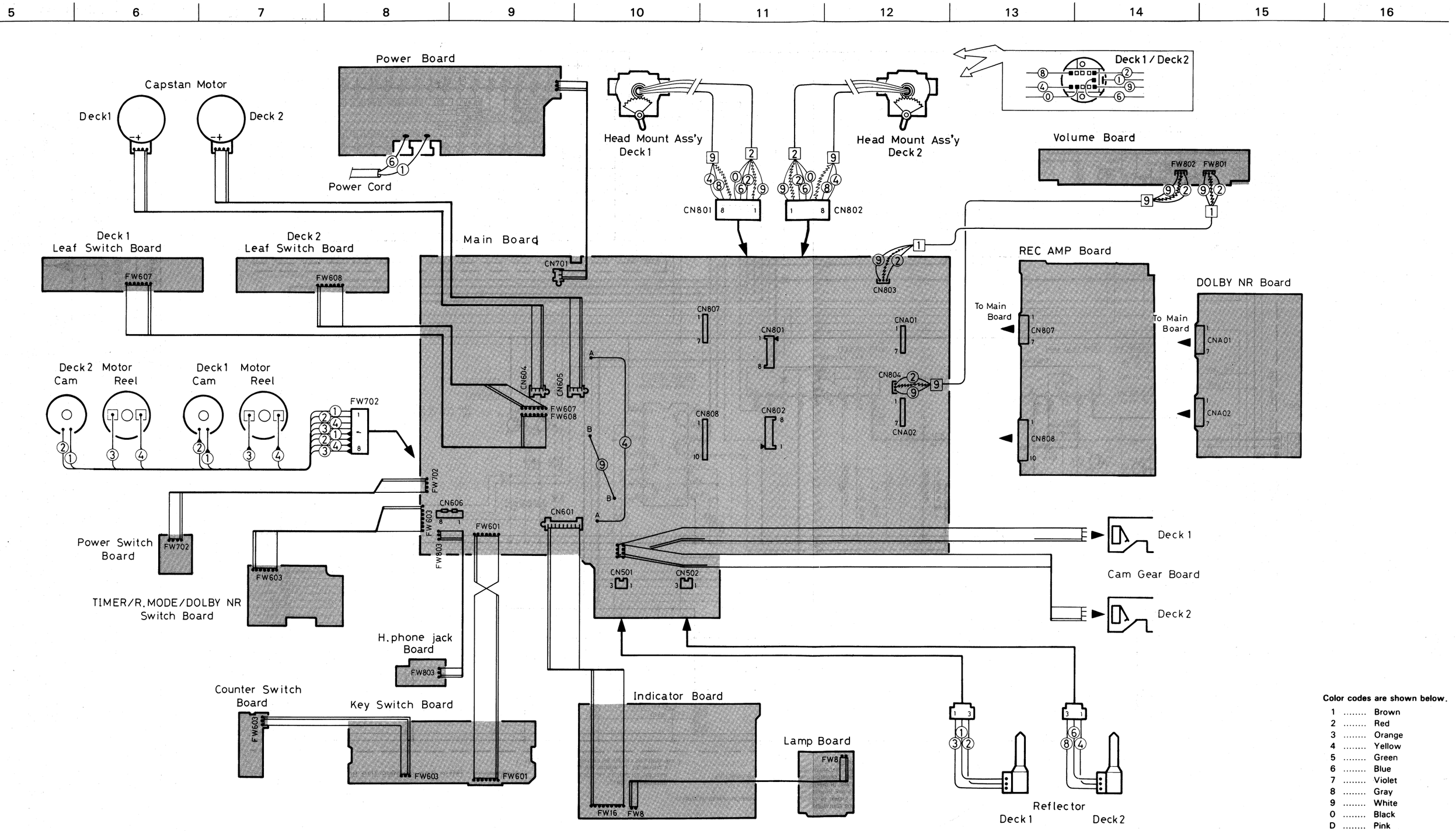
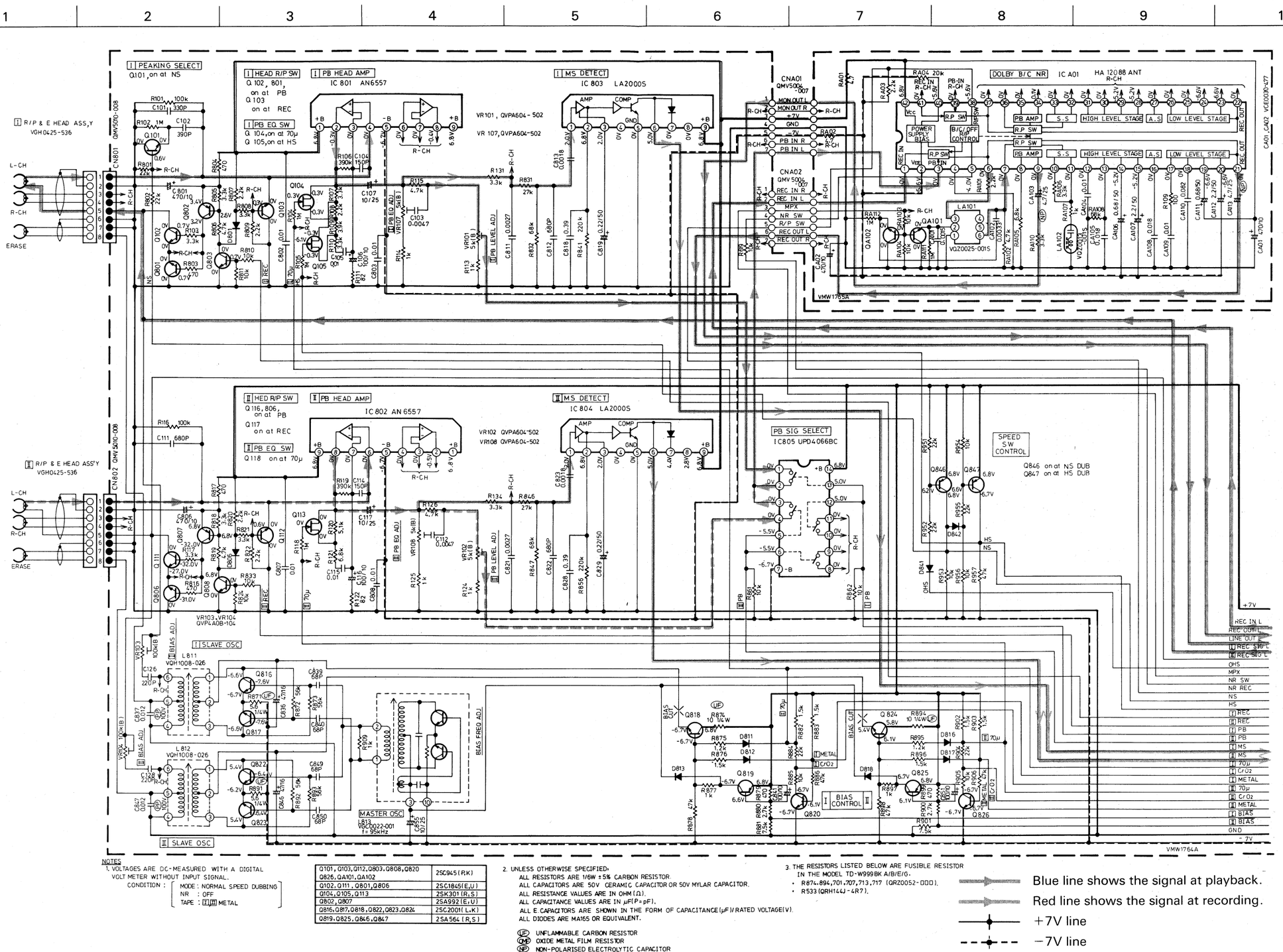


Fig. 8-1

Color codes are shown below.

1	.....	Brown
2	.....	Red
3	.....	Orange
4	.....	Yellow
5	.....	Green
6	.....	Blue
7	.....	Violet
8	.....	Gray
9	.....	White
0	.....	Black
D	.....	Pink
C	.....	Light Blue

9 Standard Schematic Diagram (1/3)



NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION : [MODE : NORMAL SPEED DUBBING; NR : OFF; TAPE : I, III METAL]

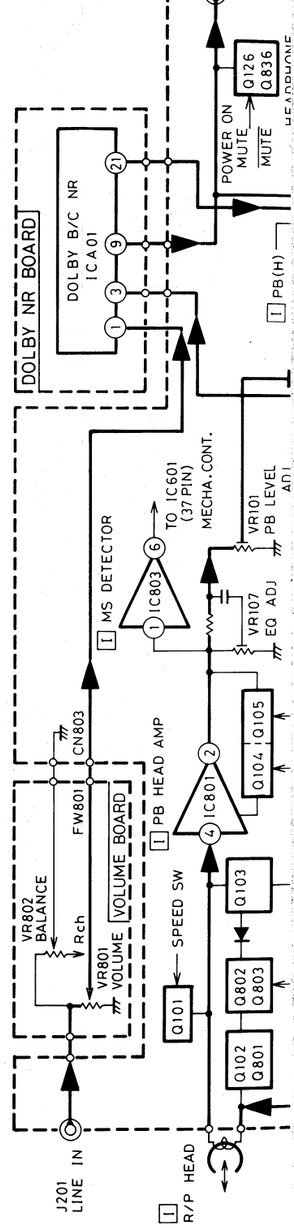
Q101, Q103, Q112, Q803, Q808, Q820 Q826, QA101, QA102	2SC945(R,K)
Q102, Q111, Q801, Q806	2SC1845(E,U)
Q104, Q105, Q113	2SK301(R,S)
Q802, Q807	2SA992(E,U)
Q816, Q817, Q818, Q822, Q823, Q824	2SC2001(L,K)
Q819, Q825, Q846, Q847	2SA564(R,S)

2. UNLESS OTHERWISE SPECIFIED,
ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM (Ω).
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V).
ALL DIODES ARE MA165 OR EQUIVALENT.
(UF) UNFLAMMABLE CARBON RESISTOR
(OMF) OXIDE METAL FILM RESISTOR
(NP) NON-POLARISED ELECTROLYTIC CAPACITOR

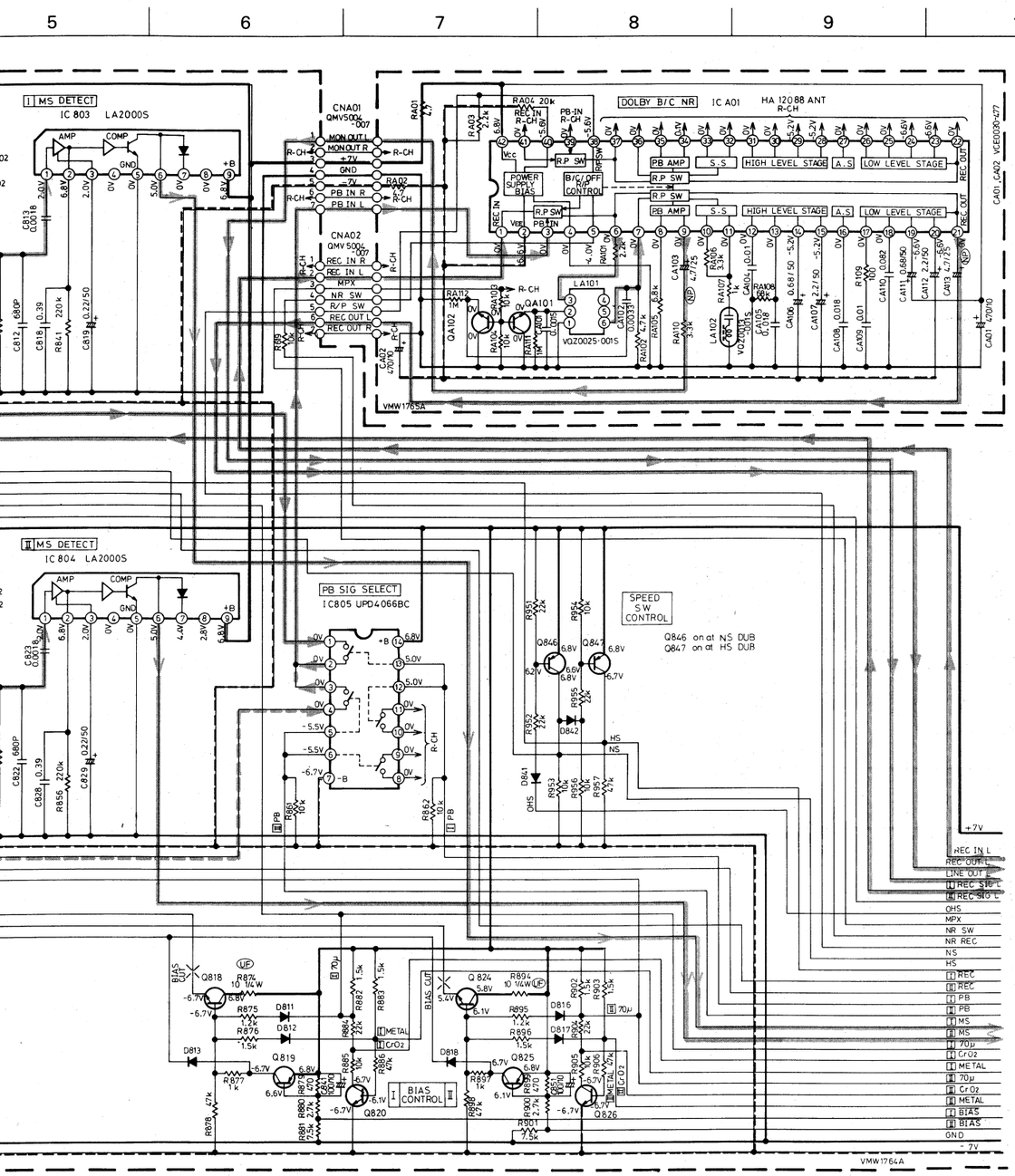
3. THE RESISTORS LISTED BELOW ARE FUSIBLE RESISTOR IN THE MODEL TD-W999BK A/B/E/G.
- R874,894,701,707,713,717 (QRZ0052-000).
- R533 (QRH144J-4R7).

Fig. 9-1

■ Block Diagram



Blue line shows the signal at playback.
Red line shows the signal at recording.
+7V line
−7V line
⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.



OTHERWISE SPECIFIED,
ESISTORS ARE 1/6W ±5% CARBON RESISTOR.
APACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
ESISTANCE VALUES ARE IN OHM (Ω).
APACITANCE VALUES ARE IN μF(P=pF).
CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V).
IODES ARE MA165 OR EQUIVALENT.

UNFLAMMABLE CARBON RESISTOR
OXIDE METAL FILM RESISTOR
ON-POLARISED ELECTROLYTIC CAPACITOR

3. THE RESISTORS LISTED BELOW ARE FUSIBLE RESISTOR IN THE MODEL TD-W999BK A/B/E/G.
- R874,894,701,707,713,717 (QRZ0052-000).
- R533 (QRH144J-4R7).

Blue line shows the signal at playback.
Red line shows the signal at recording.
+7V line
−7V line
⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Fig. 9-1

■ Block Diagram

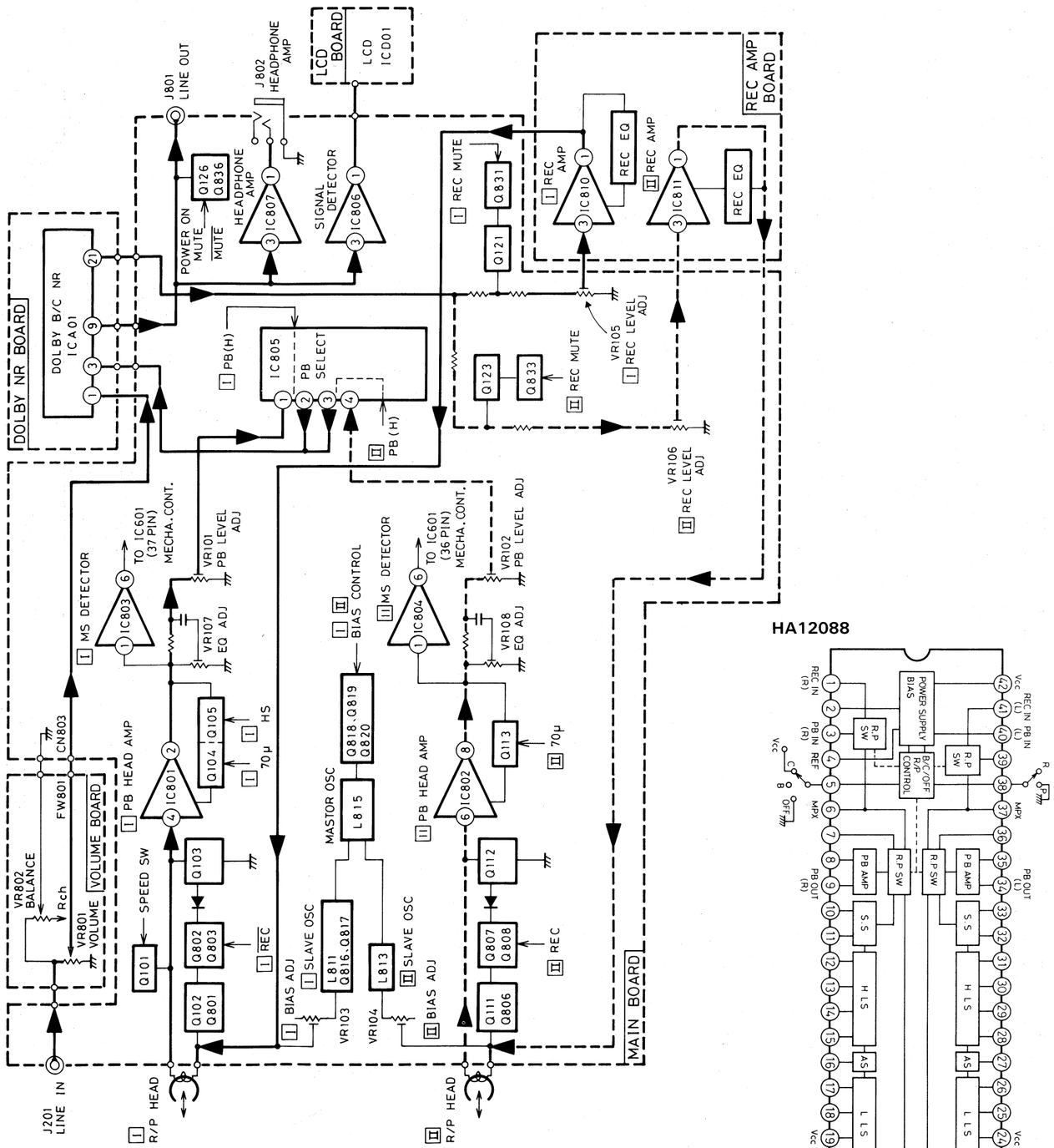
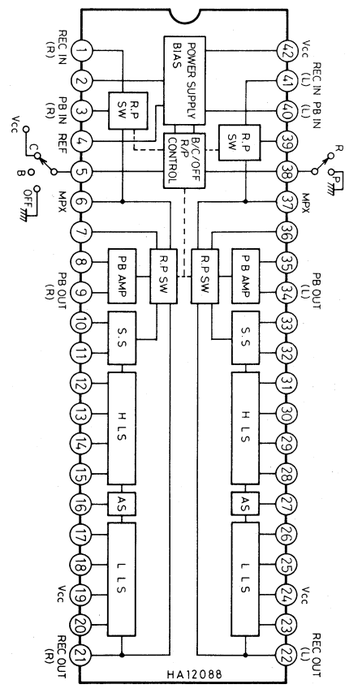
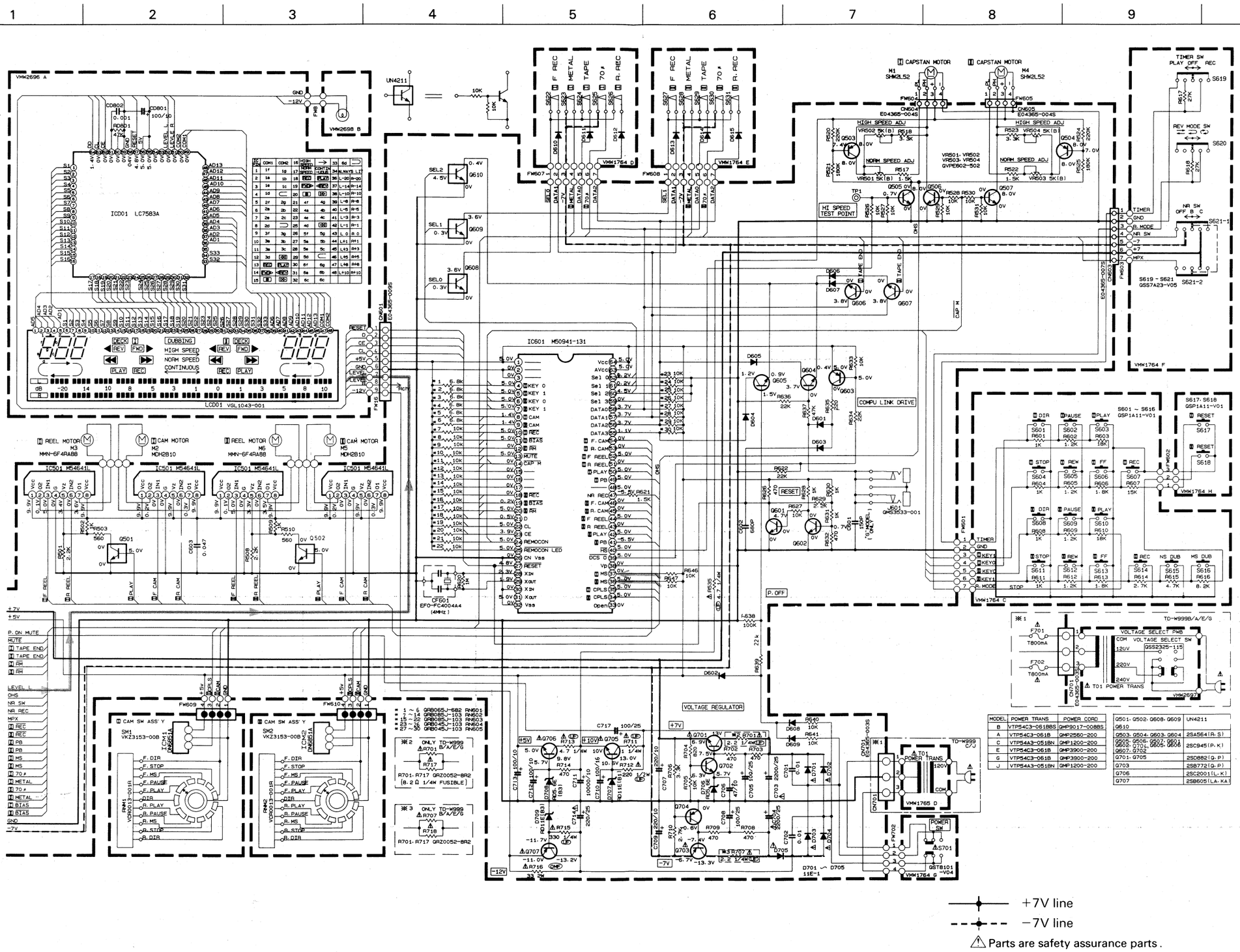


Fig. 9-2



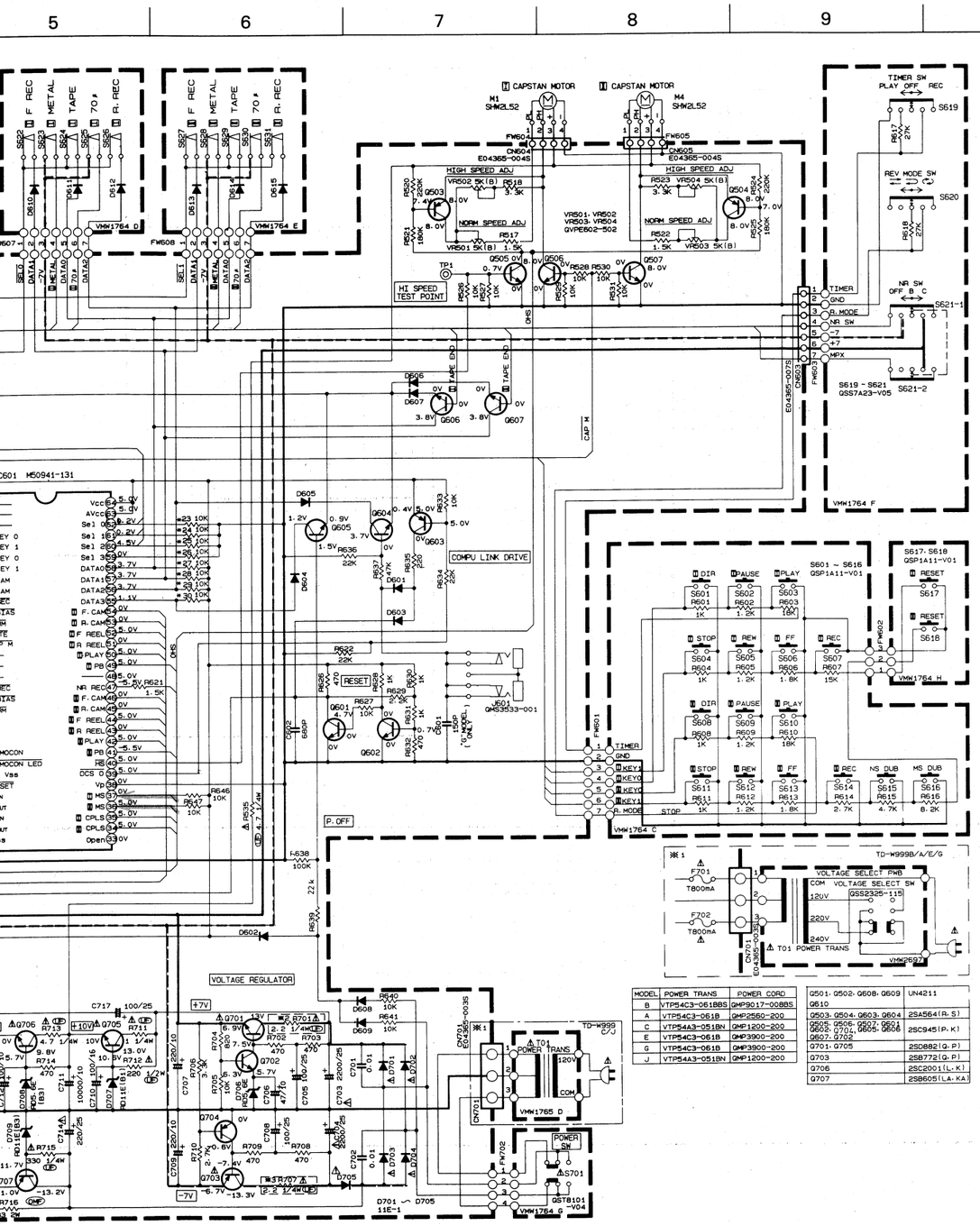
(3/3)



MODEL	POWER TRANS	POWER CORD
B	VTP54C3-061BBS	QMP9017-008BS
A	VTP54C3-061B	QMP2560-200
C	VTP54A3-051BN	QMP1200-200
E	VTP54C3-061B	QMP3900-200
G	VTP54C3-061B	QMP3900-200
J	VTP54A3-051BN	QMP1200-200

Q501, Q502, Q608, Q609	UN4211
Q610	
Q503, Q504, Q603, Q604	2SA564(R, S)
Q505, Q506, Q507, Q601, Q602, Q704, Q605, Q606	2SC945(P, K)
Q607, Q702	
Q701, Q705	2SD882(Q, P)
Q703	2SB772(Q, P)
Q706	2SC2001(L, K)
Q707	2SB605(LA, KA)

Fig. 9-10



MODEL	POWER TRANS	POWER CORD
B	VTP54C3-061BBS	GMP9017-00BBS
A	VTP54C3-061B	GMP2560-200
C	VTP54A3-051BN	GMP1200-200
E	VTP54C3-061B	GMP3900-200
G	VTP54C3-061B	GMP3900-200
J	VTP54A3-051BN	GMP1200-200

Q501, Q502, Q608, Q609	UN4211
Q610	
Q503, Q504, Q603, Q604	2SA564(R, S)
Q505, Q506, Q507, Q601 Q602, Q701, Q605, Q606 Q607, Q702	2SC945(P, K)
Q701, Q705	2SD882(Q, P)
Q703	2SB772(Q, P)
Q706	2SC2001(L, K)
Q707	2SB605(LA, KA)

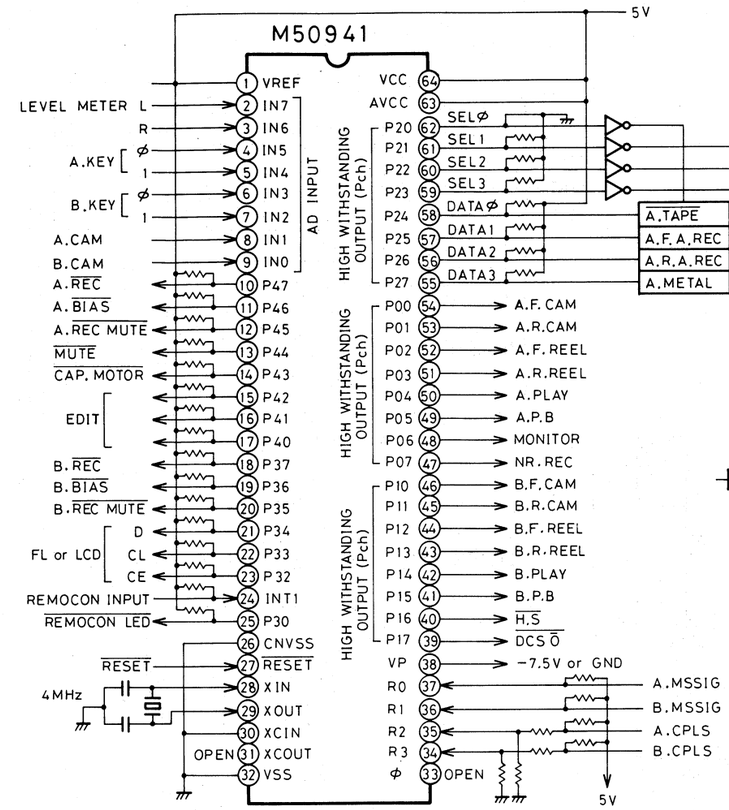
+7V line

−7V line

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Fig. 9-10

■ IC 601 Block Diagram



A.TAPE	B.TAPE	A.T.END	(W999/V9)
A.F.A.REC	B.F.A.REC	B.T.END	—
A.R.A.REC	B.R.A.REC	DCS I	—
A.METAL	B.METAL	P OFF	—

Fig. 9-11

■ IC Block Diagram

M54641L **IC501–504**

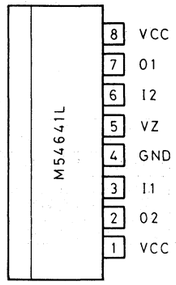
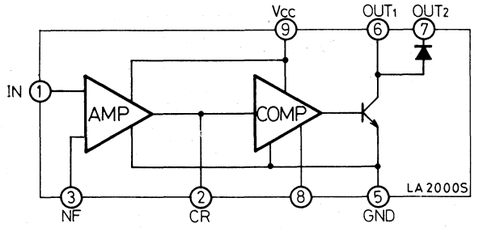


Fig. 9-3

LA2000S **IC803, 804**



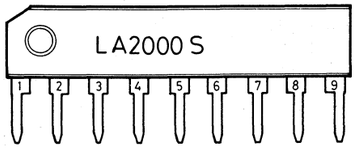
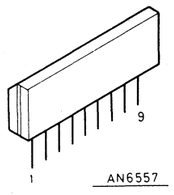


Fig. 9-4

AN6557 **IC801, 802**



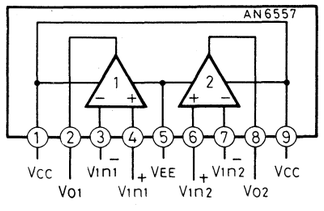


Fig. 9-5

LC7583A **ICD01**

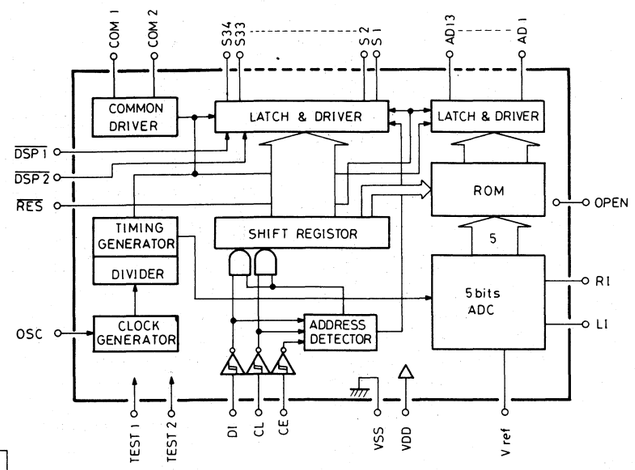
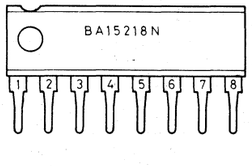


Fig. 9-6

BA15218N **IC511, 512, 806, 807**



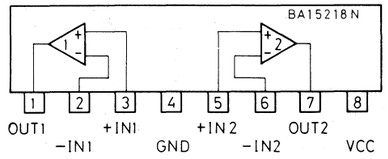


Fig. 9-7

UPD4066BC **IC805**

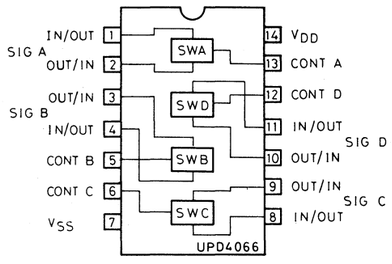


Fig. 9-8

(2/3)

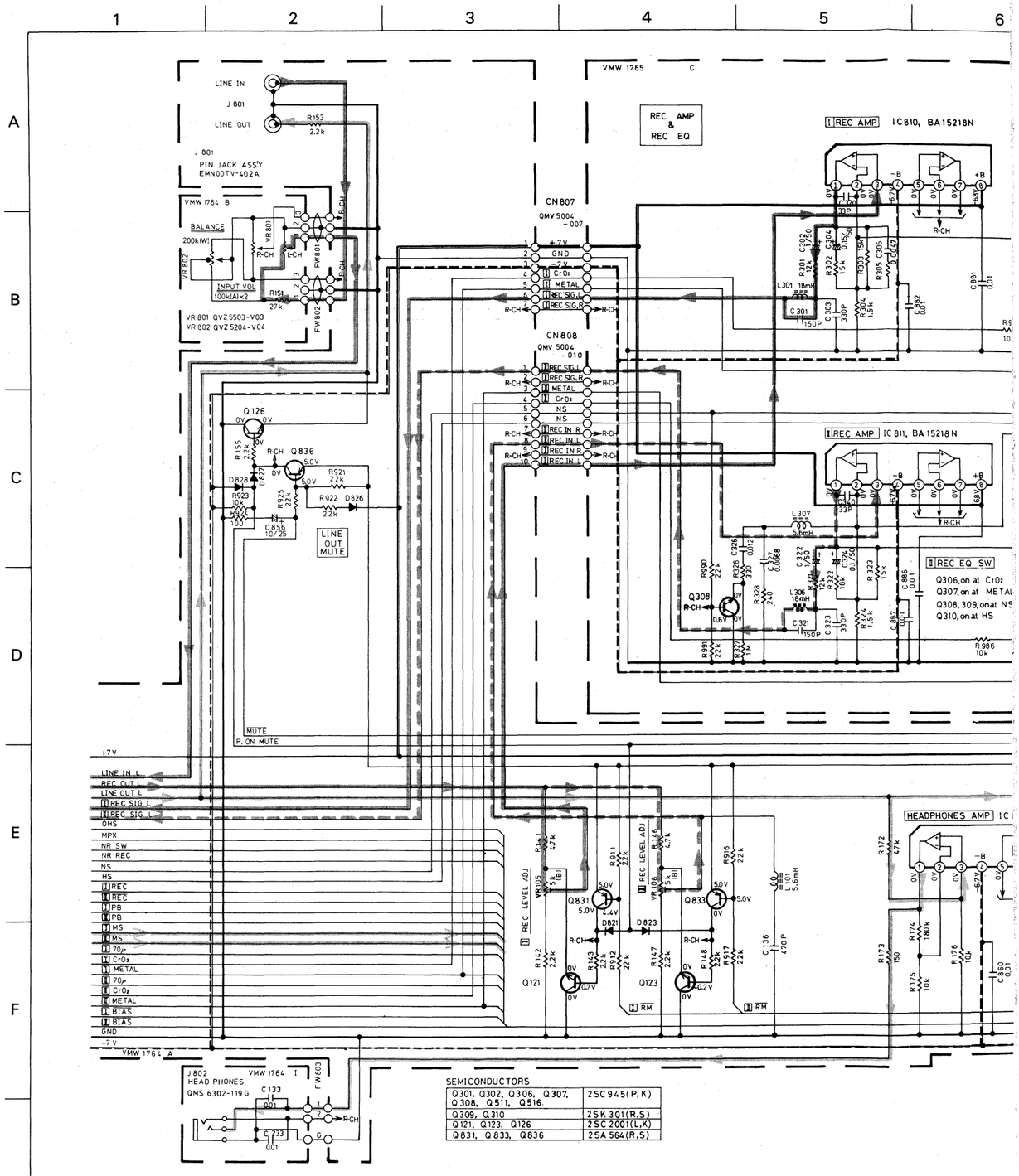
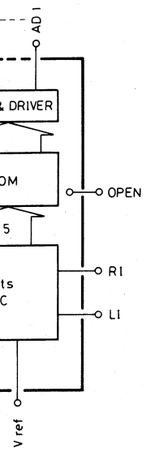


Fig. 9-9

(2/3)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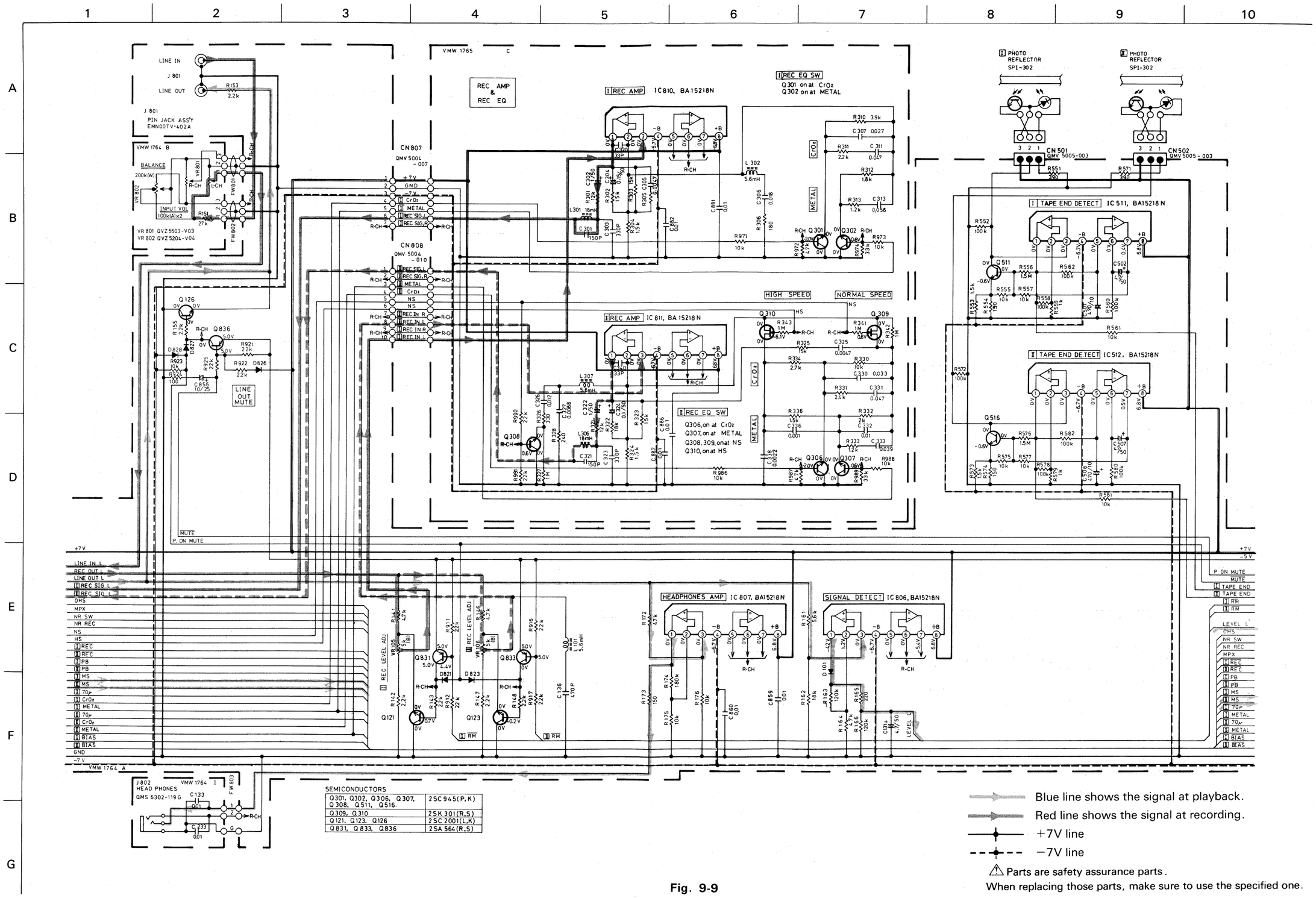

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
VMW 1765 C
REC AMP & REC EQ
I REC AMP IC810, BA15218N
I REC EQ SW
Q301 on at CrO2
Q302 on at METAL
I REC AMP IC811, BA15218N
I REC EQ SW
Q306,on at CrO2
Q307,on at METAL
Q308, 309, on at NS
Q310, on at HS
HIGH SPEED
NORMAL SPEED
I PHOTO REFLECTOR SPI-302
II PHOTO REFLECTOR SPI-302
CN 501 QMV 5005-003
CN 502 QMV 5005-003
I TAPE END DETECT IC 511, BA15218N
II TAPE END DETECT IC 512, BA15218N
LINE IN
J 801
LINE OUT
J 801
PIN JACK ASS'Y
EMN00TV-402A
VMW 1764 B
BALANCE
200k(W)
INPUT VOL
100k(A)×2
VR 801 QVZ5503-V03
VR 802 QVZ5204-V04
CN 807
QMV 5004 -007
CN 808
QMV 5004 -010
LINE OUT MUTE
MUTE
P. ON MUTE
+7V
GND
-7V
CrO2
METAL
REC SIG L
REC SIG R
NS
REC IN R
REC IN L
LINE IN L
REC OUT L
LINE OUT L
REC SIG L
REC SIG R
OHS
MPX
NR SW
NR REC
HS
REC
REC
PB
PB
MS
MS
70μ
CrO2
METAL
70μ
CrO2
METAL
BIAS
BIAS
GND
-7V
REC LEVEL ADJ
HEADPHONES AMP IC 807, BA15218N
SIGNAL DETECT IC 806, BA15218N
TAPE END
TAPE END
RM
RM
LEVEL L
CHS
VMW 1764 A
J 802
HEAD PHONES
QMS 6302-119 G
VMW 1764 I
FW803
SEMICONDUCTORS
Q301, Q302, Q306, Q307, Q308, Q511, Q516. | 2SC945(P,K)
Q309, Q310 | 2SK301(R,S)
Q121, Q123, Q126 | 2SC2001(L,K)
Q831, Q833, Q836 | 2SA564(R,S)
Blue line shows the signal at playback.
Red line shows the signal at recording.
+7V line
−7V line
⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Fig. 9-9

10 Location of P.C. Board Parts and Parts List

■ DOLBY NR/Recording Board

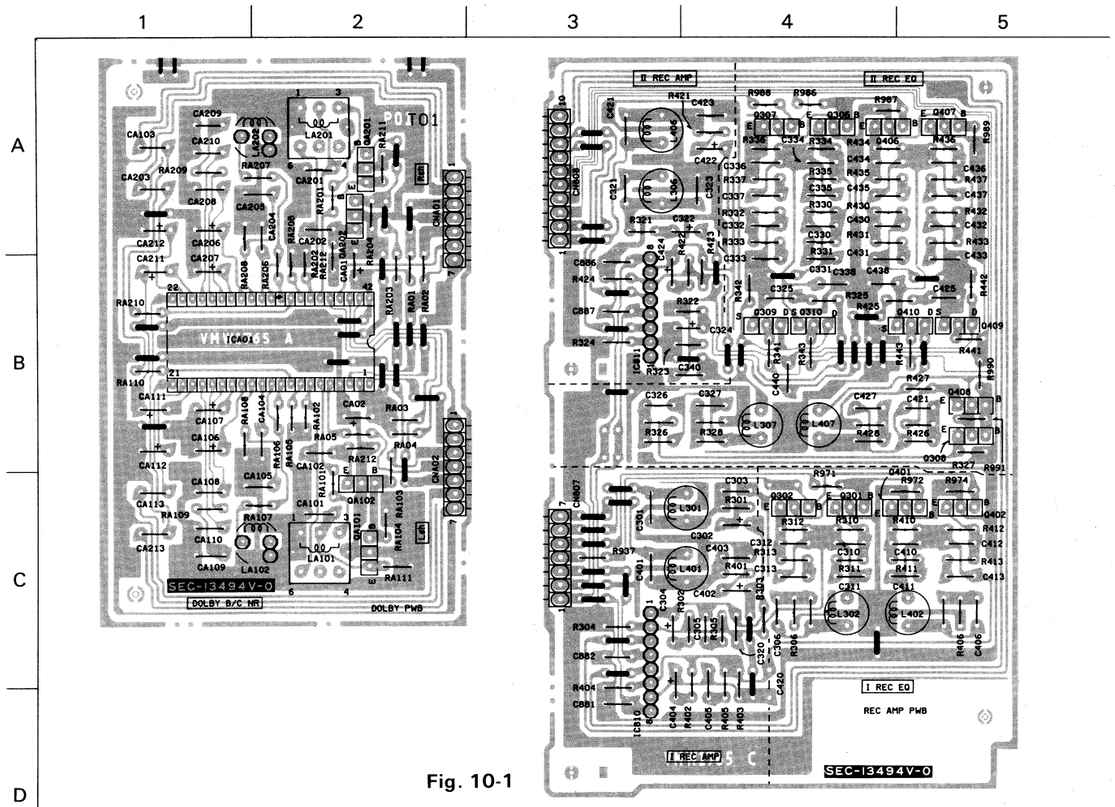


Fig. 10-1

DOLBY NR/Recording Board Parts List

⚠	REF. NO	PARTS NO.	PARTS NAME
	CA01	QETC1AM-477ZN	E.CAPACITOR
	CA02	QETC1AM-477ZN	E.CAPACITOR
	CA101	QFN31HJ-152Z	M.CAPACITOR
	CA102	QFN31HJ-332Z	M.CAPACITOR
	CA103	QEN61EM-475Z	NP.E.CAPACITOR
	CA104	QFV71HJ-103ZM	TF.CAPACITOR
	CA105	QFV71HJ-183ZM	TF.CAPACITOR
	CA106	QETC1HM-684ZN	E.CAPACITOR
	CA107	QETC1HM-225ZN	E.CAPACITOR
	CA108	QFV71HJ-183ZM	TF.CAPACITOR
	CA109	QFV71HJ-103ZM	TF.CAPACITOR
	CA110	QFV71HJ-823ZM	TF.CAPACITOR
	CA111	QETC1HM-684ZN	E.CAPACITOR
	CA112	QETC1HM-225ZN	E.CAPACITOR
	CA113	QEN61EM-475Z	NP.E.CAPACITOR
	CA201	QFN31HJ-152Z	M.CAPACITOR
	CA202	QFN31HJ-332Z	M.CAPACITOR
	CA203	QEN61EM-475Z	NP.E.CAPACITOR
	CA204	QFV71HJ-103ZM	TF.CAPACITOR
	CA205	QFV71HJ-183ZM	TF.CAPACITOR
	CA206	QETC1HM-684ZN	E.CAPACITOR
	CA207	QETC1HM-225ZN	E.CAPACITOR
	CA208	QFV71HJ-183ZM	TF.CAPACITOR
	CA209	QFV71HJ-103ZM	TF.CAPACITOR
	CA210	QFV71HJ-823ZM	TF.CAPACITOR
	CA211	QETC1HM-684ZN	E.CAPACITOR
	CA212	QETC1HM-225ZN	E.CAPACITOR
	CA213	QEN61EM-475Z	NP.E.CAPACITOR
	CNA01	QMV5004-007	CONNECTOR
	CNA02	QMV5004-007	CONNECTOR

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	CN807	QMV5004-007	CONNECTOR
	CN808	QMV5004-010	CONNECTOR
	C301	QCS32HJ-151ZV	C CAPACITOR
	C302	QETC1HM-105ZN	E.CAPACITOR
	C303	QCS31HJ-331Z	C.CAPACITOR
	C304	QETC1HM-154Z	E CAPACITOR
	C305	QCY31HK-472Z	C.CAPACITOR
	C306	QFV71HJ-183ZM	TF.CAPACITOR
	C310	QFV71HJ-223ZM	TF.CAPACITOR
	C311	QFV71HJ-333ZM	TF.CAPACITOR
	C312	QFV71HJ-183ZM	TF.CAPACITOR
	C313	QFV71HJ-473ZM	TF.CAPACITOR
	C320	QCS31HJ-330Z	C.CAPACITOR
	C321	QCS32HJ-151ZV	C CAPACITOR
	C322	QETC1HM-105ZN	E.CAPACITOR
	C323	QCS31HJ-331Z	C.CAPACITOR
	C324	QETC1HM-224ZN	E.CAPACITOR
	C325	QCY31HK-472Z	C.CAPACITOR
	C326	QFV71HJ-123ZM	TF CAPACITOR
	C327	QFN31HJ-682Z	M.CAPACITOR
	C330	QFV71HJ-273ZM	TF.CAPACITOR
	C331	QFV71HJ-393ZM	TF.CAPACITOR
	C332	QFV71HJ-153ZM	TF.CAPACITOR
	C333	QFV71HJ-393ZM	TF.CAPACITOR
	C334	QCY31HK-472Z	C.CAPACITOR
	C336	QFV71HJ-103ZM	TF.CAPACITOR
	C338	QCY31HK-682Z	C.CAPACITOR
	C340	QCS31HJ-330Z	C.CAPACITOR
	C401	QCS32HJ-151ZV	C CAPACITOR
	C402	QETC1HM-105ZN	E.CAPACITOR

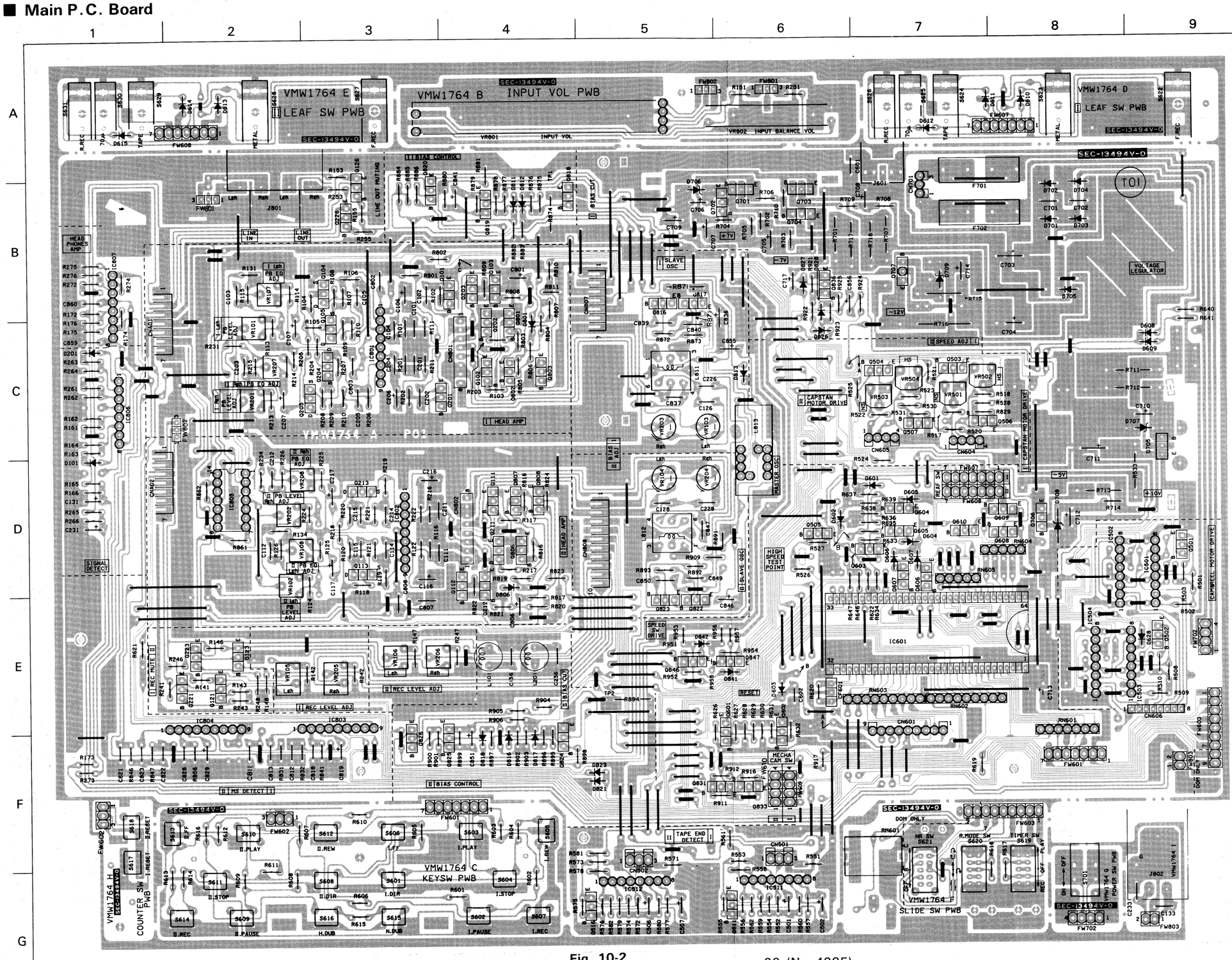
⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

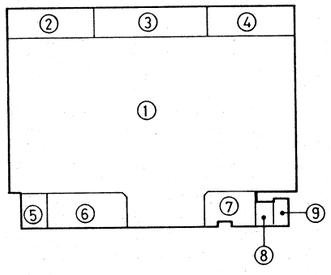
⚠	REF. NO	PARTS NO.	PARTS NAME
	C403	QCS31HJ-331Z	C.CAPACITOR
	C404	QETC1HM-154Z	E CAPACITOR
	C405	QCY31HK-472Z	C.CAPACITOR
	C406	QFV71HJ-183ZM	TF.CAPACITOR
	C410	QFV71HJ-223ZM	TF.CAPACITOR
	C411	QFV71HJ-333ZM	TF.CAPACITOR
	C412	QFV71HJ-183ZM	TF.CAPACITOR
	C413	QFV71HJ-473ZM	TF.CAPACITOR
	C420	QCS31HJ-330Z	C.CAPACITOR
	C421	QCS32HJ-151ZV	C CAPACITOR
	C422	QETC1HM-105ZN	E.CAPACITOR
	C423	QCS31HJ-331Z	C.CAPACITOR
	C424	QETC1HM-224ZN	E.CAPACITOR
	C425	QCY31HK-472Z	C.CAPACITOR
	C426	QFV71HJ-123ZM	TF CAPACITOR
	C427	QFN31HJ-682Z	M.CAPACITOR
	C430	QFV71HJ-273ZM	TF.CAPACITOR
	C431	QFV71HJ-393ZM	TF.CAPACITOR
	C432	QFV71HJ-153ZM	TF.CAPACITOR
	C433	QFV71HJ-393ZM	TF.CAPACITOR
	C434	QCY31HK-472Z	C.CAPACITOR
	C436	QFV71HJ-103ZM	TF.CAPACITOR
	C438	QCY31HK-682Z	C.CAPACITOR
	C440	QCS31HJ-330Z	C.CAPACITOR
	C881	QCF31HP-103Z	C.CAPACITOR
	C882	QCF31HP-103Z	C.CAPACITOR
	C886	QCF31HP-103Z	C.CAPACITOR
	C887	QCF31HP-103Z	C.CAPACITOR
	ICA01	HA12088ANT	DOLBY NR I.C
	IC810	BA15218N	IC
	IC811	BA15218N	IC
	LA101	VQZ0025-001S	FILTER
	LA102	VQZ0013-001S	FILTER
	LA201	VQZ0025-001S	FILTER
	LA202	VQZ0013-001S	FILTER
	L301	VQP0001-183S	INDUCTOR
	L302	VQP0001-562S	INDUCTOR
	L306	VQP0001-183S	INDUCTOR
	L307	VQP0001-562S	INDUCTOR
	L401	VQP0001-183S	INDUCTOR
	L402	VQP0001-562S	INDUCTOR
	L406	VQP0001-183S	INDUCTOR
	L407	VQP0001-562S	INDUCTOR
	QA101	2SC945(P,K)-T	TRANSISTOR
	QA102	2SC945(P,K)-T	TRANSISTOR
	QA201	2SC945(P,K)-T	TRANSISTOR
	QA202	2SC945(P,K)-T	TRANSISTOR
	Q301	2SC945(P,K)-T	TRANSISTOR
	Q302	2SC945(P,K)-T	TRANSISTOR
	Q306	2SC945(P,K)-T	TRANSISTOR
	Q307	2SC945(P,K)-T	TRANSISTOR
	Q308	2SC945(P,K)-T	TRANSISTOR
	Q309	2SK301(R,S)TA	TRANSISTOR
	Q310	2SK301(R,S)TA	TRANSISTOR
	Q401	2SC945(P,K)-T	TRANSISTOR
	Q402	2SC945(P,K)-T	TRANSISTOR
	Q406	2SC945(P,K)-T	TRANSISTOR
	Q407	2SC945(P,K)-T	TRANSISTOR
	Q408	2SC945(P,K)-T	TRANSISTOR
	Q409	2SK301(R,S)TA	TRANSISTOR
	Q410	2SK301(R,S)TA	TRANSISTOR
	RA01	QRD161J-4R7Y	C RESISTOR
	RA02	QRD161J-4R7Y	C RESISTOR
	RA03	QRD161J-222Y	CARBON RESISTOR
	RA04	QRD161J-203Y	CARBON RESISTOR
	RA05	QRD161J-103Y	CARBON RESISTOR
	RA101	QRD161J-222Y	CARBON RESISTOR
	RA102	QRD161J-472Y	CARBON RESISTOR
	RA103	QRD161J-103Y	CARBON RESISTOR
	RA104	QRD161J-103Y	CARBON RESISTOR
	RA105	QRD161J-682Y	CARBON RESISTOR
	RA106	QRD161J-332Y	CARBON RESISTOR
	RA107	QRD161J-102Y	CARBON RESISTOR
	RA108	QRD161J-683Y	CARBON RESISTOR
	RA109	QRD161J-101Y	CARBON RESISTOR
	RA110	QRD161J-332Y	CARBON RESISTOR
	RA111	QRD161J-105Y	CARBON RESISTOR
	RA112	QRD161J-105Y	CARBON RESISTOR
	RA201	QRD161J-222Y	CARBON RESISTOR
	RA202	QRD161J-472Y	CARBON RESISTOR

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	RA203	QRD161J-103Y	CARBON RESISTOR
	RA204	QRD161J-103Y	CARBON RESISTOR
	RA205	QRD161J-682Y	CARBON RESISTOR
	RA206	QRD161J-332Y	CARBON RESISTOR
	RA207	QRD161J-102Y	CARBON RESISTOR
	RA208	QRD161J-683Y	CARBON RESISTOR
	RA209	QRD161J-101Y	CARBON RESISTOR
	RA210	QRD161J-332Y	CARBON RESISTOR
	RA211	QRD161J-105Y	CARBON RESISTOR
	RA212	QRD161J-105Y	CARBON RESISTOR
	R301	QRD161J-123Y	CARBON RESISTOR
	R302	QRD161J-153Y	CARBON RESISTOR
	R303	QRD161J-153Y	CARBON RESISTOR
	R304	QRD161J-152Y	CARBON RESISTOR
	R305	QRD161J-183Y	CARBON RESISTOR
	R306	QRD161J-181Y	CARBON RESISTOR
	R310	QRD161J-392Y	CARBON RESISTOR
	R311	QRD161J-272Y	CARBON RESISTOR
	R312	QRD161J-222Y	CARBON RESISTOR
	R313	QRD161J-182Y	CARBON RESISTOR
	R321	QRD161J-123Y	CARBON RESISTOR
	R322	QRD161J-153Y	CARBON RESISTOR
	R323	QRD161J-153Y	CARBON RESISTOR
	R324	QRD161J-152Y	CARBON RESISTOR
	R325	QRD161J-123Y	CARBON RESISTOR
	R326	QRD161J-471Y	CARBON RESISTOR
	R327	QRD161J-105Y	CARBON RESISTOR
	R328	QRD161J-181Y	CARBON RESISTOR
	R330	QRD161J-103Y	CARBON RESISTOR
	R331	QRD161J-222Y	CARBON RESISTOR
	R332	QRD161J-272Y	CARBON RESISTOR
	R333	QRD161J-152Y	CARBON RESISTOR
	R334	QRD161J-272Y	CARBON RESISTOR
	R336	QRD161J-152Y	CARBON RESISTOR
	R341	QRD161J-105Y	CARBON RESISTOR
	R342	QRD161J-105Y	CARBON RESISTOR
	R343	QRD161J-105Y	CARBON RESISTOR
	R401	QRD161J-123Y	CARBON RESISTOR
	R402	QRD161J-153Y	CARBON RESISTOR
	R403	QRD161J-153Y	CARBON RESISTOR
	R404	QRD161J-152Y	CARBON RESISTOR
	R405	QRD161J-183Y	CARBON RESISTOR
	R406	QRD161J-181Y	CARBON RESISTOR
	R410	QRD161J-392Y	CARBON RESISTOR
	R411	QRD161J-272Y	CARBON RESISTOR
	R412	QRD161J-222Y	CARBON RESISTOR
	R413	QRD161J-182Y	CARBON RESISTOR
	R421	QRD161J-123Y	CARBON RESISTOR
	R422	QRD161J-153Y	CARBON RESISTOR
	R423	QRD161J-153Y	CARBON RESISTOR
	R424	QRD161J-152Y	CARBON RESISTOR
	R425	QRD161J-123Y	CARBON RESISTOR
	R426	QRD161J-471Y	CARBON RESISTOR
	R427	QRD161J-105Y	CARBON RESISTOR
	R428	QRD161J-181Y	CARBON RESISTOR
	R430	QRD161J-103Y	CARBON RESISTOR
	R431	QRD161J-222Y	CARBON RESISTOR
	R432	QRD161J-272Y	CARBON RESISTOR
	R433	QRD161J-152Y	CARBON RESISTOR
	R434	QRD161J-272Y	CARBON RESISTOR
	R436	QRD161J-152Y	CARBON RESISTOR
	R441	QRD161J-105Y	CARBON RESISTOR
	R442	QRD161J-105Y	CARBON RESISTOR
	R443	QRD161J-105Y	CARBON RESISTOR
	R971	QRD161J-103Y	CARBON RESISTOR
	R972	QRD161J-473Y	CARBON RESISTOR
	R973	QRD161J-103Y	CARBON RESISTOR
	R974	QRD161J-333Y	CARBON RESISTOR
	R986	QRD161J-103Y	CARBON RESISTOR
	R987	QRD161J-473Y	CARBON RESISTOR
	R988	QRD161J-103Y	CARBON RESISTOR
	R989	QRD161J-333Y	CARBON RESISTOR
	R990	QRD161J-223Y	CARBON RESISTOR
	R991	QRD161J-223Y	CARBON RESISTOR

■ Main P.C. Board





1. Main Board
2. DECK2 Leaf Switch Board
3. Volume Board
4. DECK1 Leaf Switch Board
5. Counter Switch Board
6. Key Switch Board
7. TIMER/R.MODE/DOLBY NR Switch Board
8. Power Switch Board
9. H.phon Jack Board

Fig. 10-2

Main P.C. Board Parts List

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	CF601	EFO-FC4004A4	CERA LOCK
	CN501	QMV5005-003	CONNECTOR
	CN502	QMV5005-003	CONNECTOR
	CN601	E04365-009S	CONNECTOR
	CN604	E04365-004S	CONNECTOR
	CN605	E04365-004S	CONNECTOR
	CN606	VMC0063-008	CONNECTOR
	CN701	E04365-003S	CONNECTOR
	CN801	QMV5010-008	CONNECTOR
	CN802	QMV5010-008	CONNECTOR
	C101	QCS31HJ-331Z	C.CAPACITOR
	C102	QCS31HJ-391Z	C.CAPACITOR
	C103	QFN31HJ-472Z	M.CAPACITOR
	C104	QCS31HJ-151Z	C.CAPACITOR
	C105	QFV71HJ-103ZM	TF.CAPACITOR
	C106	QETC1AM-107ZN	E.CAPACITOR
	C107	QETC1EM-106ZN	E.CAPACITOR
	C111	QCS31HJ-681Z	C CAPACITOR
	C112	QFN31HJ-472Z	M.CAPACITOR
	C114	QCS31HJ-151Z	C.CAPACITOR
	C115	QFV71HJ-103ZM	TF.CAPACITOR
	C116	QETC1AM-107ZN	E.CAPACITOR
	C117	QETC1EM-106ZN	E.CAPACITOR
	C126	QCS31HJ-221Z	C.CAPACITOR
	C128	QCS31HJ-221Z	C.CAPACITOR
	C131	QETC1HM-475ZN	E.CAPACITOR
	C133	QCF31HP-103Z	C.CAPACITOR
	C136	QCS31HJ-471Z	C.CAPACITOR
	C201	QCS31HJ-331Z	C.CAPACITOR
	C202	QCS31HJ-391Z	C.CAPACITOR
	C203	QFN31HJ-472Z	M.CAPACITOR
	C204	QCS31HJ-151Z	C.CAPACITOR
	C205	QFV71HJ-103ZM	TF.CAPACITOR
	C206	QETC1AM-107ZN	E.CAPACITOR
	C207	QETC1EM-106ZN	E.CAPACITOR
	C211	QCS31HJ-681Z	C CAPACITOR
	C212	QFN31HJ-472Z	M.CAPACITOR
	C214	QCS31HJ-151Z	C.CAPACITOR
	C215	QFV71HJ-103ZM	TF.CAPACITOR
	C216	QETC1AM-107ZN	E.CAPACITOR
	C217	QETC1EM-106ZN	E.CAPACITOR
	C226	QCS31HJ-221Z	C.CAPACITOR
	C228	QCS31HJ-221Z	C.CAPACITOR
	C231	QETC1HM-475ZN	E.CAPACITOR
	C233	QCF31HP-103Z	C.CAPACITOR
	C236	QCS31HJ-471Z	C.CAPACITOR
	C501	QETC1AM-477ZN	E.CAPACITOR
	C502	QETC1HM-475ZN	E.CAPACITOR
	C506	QETC1AM-477ZN	E.CAPACITOR
	C507	QETC1HM-475ZN	E.CAPACITOR
	C601	QCS31HJ-151Z	C.CAPACITOR
	C602	QCS31HJ-681Z	C CAPACITOR
	C701	QCF31HP-103Z	C.CAPACITOR
	C702	QCF31HP-103Z	C.CAPACITOR
	C703	QETB1EM-228N	E CAPACITOR
	C704	QETB1EM-228N	E CAPACITOR
	C705	QETC1EM-107ZN	E.CAPACITOR
	C706	QETC1AM-476ZN	E.CAPACITOR
	C707	QETC1AM-227ZN	E.CAPACITOR
	C708	QETC1EM-107ZN	E.CAPACITOR
	C709	QETC1AM-227ZN	E.CAPACITOR
	C710	QETC1AM-107ZN	E.CAPACITOR
	C711	QETB1AM-109N	E.CAPACITOR
	C712	QETC1AM-107ZN	E.CAPACITOR
	C713	QETC1AM-107ZN	E.CAPACITOR
	C714	QETC1EM-227ZN	E CAPACITOR
	C717	QETC1EM-107ZN	E.CAPACITOR
	C801	QETC1AM-477ZN	E.CAPACITOR
	C802	QCF31HP-103Z	C.CAPACITOR
	C803	QCF31HP-103Z	C.CAPACITOR
	C806	QETC1AM-477ZN	E.CAPACITOR
	C807	QCF31HP-103Z	C.CAPACITOR
	C808	QCF31HP-103Z	C.CAPACITOR
	C811	QFN31HJ-272Z	M.CAPACITOR
	C812	QCS31HJ-681Z	C CAPACITOR
	C813	QFN31HJ-182Z	M.CAPACITOR
	C818	QFV71HJ-394ZM	TF.CAPACITOR
	C819	QETC1HM-224ZN	E.CAPACITOR
	C821	QFN31HJ-272Z	M.CAPACITOR
	C822	QCS31HJ-681Z	C CAPACITOR
	C823	QFN31HJ-182Z	M.CAPACITOR
	C828	QFV71HJ-394ZM	TF.CAPACITOR
	C829	QETC1HM-224ZN	E.CAPACITOR
	C836	QETC1CM-476ZN	E.CAPACITOR
	C837	QFP82AJ-123	PP CAPACITOR
	C839	QCS31HJ-680Z	C.CAPACITOR
	C840	QCS31HJ-680Z	C.CAPACITOR
	C841	QETC1AM-107ZN	E.CAPACITOR
	C846	QETC1CM-476ZN	E.CAPACITOR
	C847	QFP82AJ-123	PP CAPACITOR
	C849	QCS31HJ-680Z	C.CAPACITOR
	C850	QCS31HJ-680Z	C.CAPACITOR
	C851	QETC1AM-107ZN	E.CAPACITOR
	C855	QETC1EM-106ZN	E.CAPACITOR
	C856	QETC1EM-106ZN	E.CAPACITOR
	C859	QCF31HP-103Z	C.CAPACITOR
	C860	QCF31HP-103Z	C.CAPACITOR
	D101	MA165-TA5V	SI.DIODE
	D201	MA165-TA5V	SI.DIODE
	D601	MA165-TA5V	SI.DIODE
	D602	MA165-TA5V	SI.DIODE
	D603	MA165-TA5V	SI.DIODE
	D604	MA165-TA5V	SI.DIODE
	D605	MA165-TA5V	SI.DIODE
	D606	MA165-TA5V	SI.DIODE
	D607	MA165-TA5V	SI.DIODE
	D608	MA165-TA5V	SI.DIODE
	D609	MA165-TA5V	SI.DIODE
	D610	MA165-TA5V	SI.DIODE
	D611	MA165-TA5V	SI.DIODE
	D612	MA165-TA5V	SI.DIODE
	D613	MA165-TA5V	SI.DIODE
	D614	MA165-TA5V	SI.DIODE
	D615	MA165-TA5V	SI.DIODE
⚠	D701	11E1-TB2	SI.DIODE
⚠	D702	11E1-TB2	SI.DIODE
⚠	D703	11E1-TB2	SI.DIODE
⚠	D704	11E1-TB2	SI.DIODE
⚠	D705	11E1-TB2	SI.DIODE
	D706	RD5.6E(B3)	ZENER DIODE
	D707	RD11E(B1)	Z DIODE
	D708	RD5.6E(B3)	ZENER DIODE
	D709	RD11E(B3)	Z DIODE
	D801	MA165-TA5V	SI.DIODE
	D806	MA165-TA5V	SI.DIODE
	D811	MA165-TA5V	SI.DIODE
	D812	MA165-TA5V	SI.DIODE
	D813	MA165-TA5V	SI.DIODE
	D816	MA165-TA5V	SI.DIODE
	D817	MA165-TA5V	SI.DIODE
	D818	MA165-TA5V	SI.DIODE
	D821	MA165-TA5V	SI.DIODE
	D823	MA165-TA5V	SI.DIODE
	D826	MA165-TA5V	SI.DIODE
	D827	MA165-TA5V	SI.DIODE
	D828	MA165-TA5V	SI.DIODE
	D841	MA165-TA5V	SI.DIODE
	D842	MA165-TA5V	SI.DIODE
	IC501	M54641L	IC
	IC502	M54641L	IC
	IC503	M54641L	IC
	IC504	M54641L	IC
	IC511	BA15218N	IC
	IC512	BA15218N	IC
	IC601	M50941-131SP	IC
	IC801	AN6557	I C
	IC802	AN6557	I C
	IC803	LA2000S	I C
	IC804	LA2000S	I C
	IC805	UPD4066BC	IC

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	IC806	BA15218N	IC
	IC807	BA15218N	IC
	J601	QMS3533-001	JACK
	J801	EMN00TV-402A	PIN JACK
	J802	QMS6302-119G	JACK
	L101	VQP0001-562S	INDUCTOR
	L201	VQP0001-562S	INDUCTOR
	L811	VQH1008-026	OSC COIL(BIAS)
	L812	VQH1008-026	OSC COIL(BIAS)
	L813	VGC0022-001	OSC BLOCK
	Q101	2SC945(P,K)-T	TRANSISTOR
	Q102	2SC1845(E,U)-T	TRANSISTOR
	Q103	2SC945(P,K)-T	TRANSISTOR
	Q104	2SK301(R,S)TA	TRANSISTOR
	Q105	2SK301(R,S)TA	TRANSISTOR
	Q111	2SC1845(E,U)-T	TRANSISTOR
	Q112	2SC945(P,K)-T	TRANSISTOR
	Q113	2SK301(R,S)TA	TRANSISTOR
	Q121	2SC2001(L,K)-T	TRANSISTOR
	Q123	2SC2001(L,K)-T	TRANSISTOR
	Q126	2SC2001(L,K)-T	TRANSISTOR
	Q201	2SC945(P,K)-T	TRANSISTOR
	Q202	2SC1845(E,U)-T	TRANSISTOR
	Q203	2SC945(P,K)-T	TRANSISTOR
	Q204	2SK301(R,S)TA	TRANSISTOR
	Q205	2SK301(R,S)TA	TRANSISTOR
	Q211	2SC1845(E,U)-T	TRANSISTOR
	Q212	2SC945(P,K)-T	TRANSISTOR
	Q213	2SK301(R,S)TA	TRANSISTOR
	Q221	2SC2001(L,K)-T	TRANSISTOR
	Q223	2SC2001(L,K)-T	TRANSISTOR
	Q226	2SC2001(L,K)-T	TRANSISTOR
	Q501	UN4211TA	TRANSISTOR
	Q502	UN4211TA	TRANSISTOR
	Q503	2SA564(R,S)TA	TRANSISTOR
	Q504	2SA564(R,S)TA	TRANSISTOR
	Q505	2SC945(P,K)-T	TRANSISTOR
	Q506	2SC945(P,K)-T	TRANSISTOR
	Q507	2SC945(P,K)-T	TRANSISTOR
	Q511	2SC945(P,K)-T	TRANSISTOR
	Q516	2SC945(P,K)-T	TRANSISTOR
	Q601	2SC945(P,K)-T	TRANSISTOR
	Q602	2SC945(P,K)-T	TRANSISTOR
	Q603	2SA564(R,S)TA	TRANSISTOR
	Q604	2SC945(P,K)-T	TRANSISTOR
	Q605	2SC945(P,K)-T	TRANSISTOR
	Q606	2SC945(P,K)-T	TRANSISTOR
	Q607	2SC945(P,K)-T	TRANSISTOR
	Q608	UN4211TA	TRANSISTOR
	Q609	UN4211TA	TRANSISTOR
	Q610	UN4211TA	TRANSISTOR
⚠	Q701	2SD882(Q,P)	T.R (ﾌｿﾞｸﾋﾝ)
	Q702	2SC945(P,K)-T	TRANSISTOR
⚠	Q703	2SB772(Q,P)	T.R (ﾌｿﾞｸﾋﾝ)
	Q704	2SA564(R,S)TA	TRANSISTOR
⚠	Q705	2SD882(Q,P)	T.R (ﾌｿﾞｸﾋﾝ)
	Q706	2SC2001(L,K)-T	TRANSISTOR
⚠	Q707	2SB605(LA,KA)	TRANSISTOR
	Q801	2SC1845(E,U)-T	TRANSISTOR
	Q802	2SA992(E,U)-T	TRANSISTOR
	Q803	2SC945(P,K)-T	TRANSISTOR
	Q806	2SC1845(E,U)-T	TRANSISTOR
	Q807	2SA992(E,U)-T	TRANSISTOR
	Q808	2SC945(P,K)-T	TRANSISTOR
	Q816	2SC2001(L,K)-T	TRANSISTOR
	Q817	2SC2001(L,K)-T	TRANSISTOR
⚠	Q818	2SC2001(L,K)-T	TRANSISTOR
	Q819	2SA564(R,S)TA	TRANSISTOR
	Q820	2SC945(P,K)-T	TRANSISTOR
	Q822	2SC2001(L,K)-T	TRANSISTOR
	Q823	2SC2001(L,K)-T	TRANSISTOR
⚠	Q824	2SC2001(L,K)-T	TRANSISTOR
	Q825	2SA564(R,S)TA	TRANSISTOR
	Q826	2SC945(P,K)-T	TRANSISTOR
	Q831	2SA564(R,S)TA	TRANSISTOR
	Q833	2SA564(R,S)TA	TRANSISTOR
	Q836	2SA564(R,S)TA	TRANSISTOR
	Q846	2SA564(R,S)TA	TRANSISTOR
	Q847	2SA564(R,S)TA	TRANSISTOR
	RN601	QRB065J-682	R NETWORK
	RN602	QRB085J-103	R.NETWORK
	RN603	QRB085J-103	R.NETWORK
	RN604	QRB045J-103	R NETWORK
	RN605	QRB045J-103	R NETWORK
	R101	QRD161J-104Y	CARBON RESISTOR
	R102	QRD161J-105Y	CARBON RESISTOR
	R103	QRD161J-332Y	CARBON RESISTOR
	R104	QRD161J-105Y	CARBON RESISTOR
	R105	QRD161J-105Y	CARBON RESISTOR
	R106	QRD161J-394Y	CARBON RESISTOR
	R107	QRD161J-332Y	CARBON RESISTOR
	R108	QRD161J-222Y	CARBON RESISTOR
	R109	QRD161J-392Y	CARBON RESISTOR
	R110	QRD161J-332Y	CARBON RESISTOR
	R111	QRD161J-820Y	CARBON RESISTOR
	R113	QRD161J-102Y	CARBON RESISTOR
	R114	QRD161J-102Y	CARBON RESISTOR
	R115	QRD161J-472Y	CARBON RESISTOR
	R116	QRD161J-104Y	CARBON RESISTOR
	R117	QRD161J-332Y	CARBON RESISTOR
	R118	QRD161J-105Y	CARBON RESISTOR
	R119	QRD161J-394Y	CARBON RESISTOR
	R120	QRD161J-512Y	CARBON RESISTOR
	R121	QRD161J-682Y	CARBON RESISTOR
	R122	QRD161J-820Y	CARBON RESISTOR
	R124	QRD161J-102Y	CARBON RESISTOR
	R125	QRD161J-102Y	CARBON RESISTOR
	R126	QRD161J-472Y	CARBON RESISTOR
	R131	QRD161J-332Y	CARBON RESISTOR
	R134	QRD161J-332Y	CARBON RESISTOR
	R141	QRD161J-472Y	CARBON RESISTOR
	R142	QRD161J-222Y	CARBON RESISTOR
	R143	QRD161J-222Y	CARBON RESISTOR
	R146	QRD161J-472Y	CARBON RESISTOR
	R147	QRD161J-222Y	CARBON RESISTOR
	R148	QRD161J-222Y	CARBON RESISTOR
	R151	QRD161J-273Y	CARBON RESISTOR
	R153	QRD161J-222Y	CARBON RESISTOR
	R155	QRD161J-222Y	CARBON RESISTOR
	R161	QRD161J-562Y	CARBON RESISTOR
	R162	QRD161J-183Y	CARBON RESISTOR
	R163	QRD161J-124Y	CARBON RESISTOR
	R164	QRD161J-473Y	CARBON RESISTOR
	R165	QRD161J-221Y	CARBON RESISTOR
	R166	QRD161J-124Y	CARBON RESISTOR
	R172	QRD161J-473Y	CARBON RESISTOR
	R173	QRD161J-151Y	CARBON RESISTOR
	R174	QRD161J-184Y	CARBON RESISTOR
	R175	QRD161J-103Y	CARBON RESISTOR
	R176	QRD161J-103Y	CARBON RESISTOR
	R201	QRD161J-104Y	CARBON RESISTOR
	R202	QRD161J-105Y	CARBON RESISTOR
	R203	QRD161J-332Y	CARBON RESISTOR
	R204	QRD161J-105Y	CARBON RESISTOR
	R205	QRD161J-105Y	CARBON RESISTOR
	R206	QRD161J-394Y	CARBON RESISTOR
	R207	QRD161J-332Y	CARBON RESISTOR
	R208	QRD161J-222Y	CARBON RESISTOR
	R209	QRD161J-392Y	CARBON RESISTOR
	R210	QRD161J-332Y	CARBON RESISTOR
	R211	QRD161J-820Y	CARBON RESISTOR
	R213	QRD161J-102Y	CARBON RESISTOR
	R214	QRD161J-102Y	CARBON RESISTOR
	R215	QRD161J-472Y	CARBON RESISTOR
	R216	QRD161J-104Y	CARBON RESISTOR
	R217	QRD161J-332Y	CARBON RESISTOR
	R218	QRD161J-105Y	CARBON RESISTOR
	R219	QRD161J-394Y	CARBON RESISTOR
	R220	QRD161J-512Y	CARBON RESISTOR
	R221	QRD161J-682Y	CARBON RESISTOR

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	R222	QRD161J-820Y	CARBON RESISTOR
	R224	QRD161J-102Y	CARBON RESISTOR
	R225	QRD161J-102Y	CARBON RESISTOR
	R226	QRD161J-472Y	CARBON RESISTOR
	R231	QRD161J-332Y	CARBON RESISTOR
	R234	QRD161J-332Y	CARBON RESISTOR
	R241	QRD161J-472Y	CARBON RESISTOR
	R242	QRD161J-222Y	CARBON RESISTOR
	R243	QRD161J-222Y	CARBON RESISTOR
	R246	QRD161J-472Y	CARBON RESISTOR
	R247	QRD161J-222Y	CARBON RESISTOR
	R248	QRD161J-222Y	CARBON RESISTOR
	R251	QRD161J-273Y	CARBON RESISTOR
	R253	QRD161J-222Y	CARBON RESISTOR
	R255	QRD161J-222Y	CARBON RESISTOR
	R261	QRD161J-562Y	CARBON RESISTOR
	R262	QRD161J-183Y	CARBON RESISTOR
	R263	QRD161J-124Y	CARBON RESISTOR
	R264	QRD161J-473Y	CARBON RESISTOR
	R265	QRD161J-221Y	CARBON RESISTOR
	R266	QRD161J-124Y	CARBON RESISTOR
	R272	QRD161J-473Y	CARBON RESISTOR
	R273	QRD161J-151Y	CARBON RESISTOR
	R274	QRD161J-184Y	CARBON RESISTOR
	R275	QRD161J-103Y	CARBON RESISTOR
	R276	QRD161J-103Y	CARBON RESISTOR
	R501	QRD161J-222Y	CARBON RESISTOR
	R502	QRD161J-102Y	CARBON RESISTOR
	R503	QRD161J-561Y	CARBON RESISTOR
	R508	QRD161J-222Y	CARBON RESISTOR
	R509	QRD161J-102Y	CARBON RESISTOR
	R510	QRD161J-561Y	CARBON RESISTOR
	R517	QRD161J-152Y	CARBON RESISTOR
	R518	QRD161J-332Y	CARBON RESISTOR
	R520	QRD161J-224Y	CARBON RESISTOR
	R521	QRD161J-184Y	CARBON RESISTOR
	R522	QRD161J-152Y	CARBON RESISTOR
	R523	QRD161J-332Y	CARBON RESISTOR
	R524	QRD161J-224Y	CARBON RESISTOR
	R525	QRD161J-184Y	CARBON RESISTOR
	R526	QRD161J-103Y	CARBON RESISTOR
	R527	QRD161J-103Y	CARBON RESISTOR
	R528	QRD161J-103Y	CARBON RESISTOR
	R529	QRD161J-103Y	CARBON RESISTOR
	R530	QRD161J-103Y	CARBON RESISTOR
	R531	QRD161J-103Y	CARBON RESISTOR
⚠	R533	QRD149J-4R7S	CARBON RESISTOR
	R551	QRD161J-391Y	CARBON RESISTOR
	R552	QRD161J-104Y	CARBON RESISTOR
	R553	QRD161J-152Y	CARBON RESISTOR
	R554	QRD161J-151Y	CARBON RESISTOR
	R555	QRD161J-103Y	CARBON RESISTOR
	R556	QRD161J-155Y	CARBON RESISTOR
	R557	QRD161J-103Y	CARBON RESISTOR
	R558	QRD161J-104Y	CARBON RESISTOR
	R559	QRD161J-102Y	CARBON RESISTOR
	R560	QRD161J-104Y	CARBON RESISTOR
	R561	QRD161J-103Y	CARBON RESISTOR
	R562	QRD161J-104Y	CARBON RESISTOR
	R571	QRD161J-391Y	CARBON RESISTOR
	R572	QRD161J-104Y	CARBON RESISTOR
	R573	QRD161J-152Y	CARBON RESISTOR
	R574	QRD161J-151Y	CARBON RESISTOR
	R575	QRD161J-103Y	CARBON RESISTOR
	R576	QRD161J-155Y	CARBON RESISTOR
	R577	QRD161J-103Y	CARBON RESISTOR
	R578	QRD161J-104Y	CARBON RESISTOR
	R579	QRD161J-102Y	CARBON RESISTOR
	R580	QRD161J-104Y	CARBON RESISTOR
	R581	QRD161J-103Y	CARBON RESISTOR
	R582	QRD161J-104Y	CARBON RESISTOR
	R601	QRD161J-102Y	CARBON RESISTOR
	R602	QRD161J-122Y	CARBON RESISTOR
	R603	QRD161J-183Y	CARBON RESISTOR
	R604	QRD161J-102Y	CARBON RESISTOR

⚠	REF. NO	PARTS NO.	PARTS NAME
	R605	QRD161J-122Y	CARBON RESISTOR
	R606	QRD161J-182Y	CARBON RESISTOR
	R607	QRD161J-153Y	CARBON RESISTOR
	R608	QRD161J-102Y	CARBON RESISTOR
	R609	QRD161J-122Y	CARBON RESISTOR
	R610	QRD161J-183Y	CARBON RESISTOR
	R611	QRD161J-102Y	CARBON RESISTOR
	R612	QRD161J-122Y	CARBON RESISTOR
	R613	QRD161J-182Y	CARBON RESISTOR
	R614	QRD161J-272Y	CARBON RESISTOR
	R615	QRD161J-472Y	CARBON RESISTOR
	R616	QRD161J-822Y	CARBON RESISTOR
	R617	QRD161J-273Y	CARBON RESISTOR
	R618	QRD161J-273Y	CARBON RESISTOR
	R619	QRD161J-103Y	CARBON RESISTOR
	R620	QRD161J-105Y	CARBON RESISTOR
	R621	QRD161J-152Y	CARBON RESISTOR
	R622	QRD161J-223Y	CARBON RESISTOR
	R626	QRD161J-471Y	CARBON RESISTOR
	R627	QRD161J-103Y	CARBON RESISTOR
	R628	QRD161J-102Y	CARBON RESISTOR
	R629	QRD161J-222Y	CARBON RESISTOR
	R630	QRD161J-102Y	CARBON RESISTOR
	R631	QRD161J-102Y	CARBON RESISTOR
	R632	QRD161J-471Y	CARBON RESISTOR
	R633	QRD161J-103Y	CARBON RESISTOR
	R634	QRD161J-223Y	CARBON RESISTOR
	R635	QRD161J-221Y	CARBON RESISTOR
	R636	QRD161J-223Y	CARBON RESISTOR
	R637	QRD161J-473Y	CARBON RESISTOR
	R638	QRD161J-104Y	CARBON RESISTOR
	R639	QRD161J-223Y	CARBON RESISTOR
	R640	QRD161J-103Y	CARBON RESISTOR
	R641	QRD161J-103Y	CARBON RESISTOR
	R646	QRD161J-103Y	CARBON RESISTOR
	R647	QRD161J-103Y	CARBON RESISTOR
⚠	R701	QRD149J-4R7S	CARBON RESISTOR
	R702	QRD161J-471Y	CARBON RESISTOR
	R703	QRD161J-471Y	CARBON RESISTOR
	R704	QRD161J-821Y	CARBON RESISTOR
	R705	QRD161J-103Y	CARBON RESISTOR
	R706	QRD161J-332Y	CARBON RESISTOR
⚠	R707	QRD149J-4R7S	CARBON RESISTOR
	R708	QRD161J-471Y	CARBON RESISTOR
	R709	QRD161J-471Y	CARBON RESISTOR
	R710	QRD161J-272Y	CARBON RESISTOR
⚠	R711	QRD149J-1R0S	CARBON RESISTOR
⚠	R712	QRD129J-221	CARBON RESISTOR
⚠	R713	QRD149J-4R7S	CARBON RESISTOR
	R714	QRD161J-471Y	CARBON RESISTOR
⚠	R715	QRD149J-331S	CARBON RESISTOR
⚠	R716	QRG029J-330	OMF.RESISTOR
	R717	QRZ0052-8R2	F RESISTOR
	R718	QRZ0052-8R2	F RESISTOR
	R801	QRD161J-223Y	CARBON RESISTOR
	R802	QRD161J-223Y	CARBON RESISTOR
	R803	QRD161J-471Y	CARBON RESISTOR
	R804	QRD161J-471Y	CARBON RESISTOR
	R805	QRD161J-332Y	CARBON RESISTOR
	R806	QRD161J-472Y	CARBON RESISTOR
	R807	QRD161J-222Y	CARBON RESISTOR
	R808	QRD161J-332Y	CARBON RESISTOR
	R809	QRD161J-222Y	CARBON RESISTOR
	R810	QRD161J-103Y	CARBON RESISTOR
	R811	QRD161J-103Y	CARBON RESISTOR
	R816	QRD161J-471Y	CARBON RESISTOR
	R817	QRD161J-471Y	CARBON RESISTOR
	R818	QRD161J-332Y	CARBON RESISTOR
	R819	QRD161J-472Y	CARBON RESISTOR
	R820	QRD161J-222Y	CARBON RESISTOR
	R821	QRD161J-332Y	CARBON RESISTOR
	R822	QRD161J-222Y	CARBON RESISTOR
	R823	QRD161J-103Y	CARBON RESISTOR
	R824	QRD161J-103Y	CARBON RESISTOR
	R831	QRD161J-273Y	CARBON RESISTOR

⚠	REF. NO	PARTS NO.	PARTS NAME
	R832	QRD161J-683Y	CARBON RESISTOR
	R841	QRD161J-224Y	CARBON RESISTOR
	R846	QRD161J-273Y	CARBON RESISTOR
	R847	QRD161J-683Y	CARBON RESISTOR
	R856	QRD161J-224Y	CARBON RESISTOR
	R861	QRD161J-103Y	CARBON RESISTOR
	R862	QRD161J-103Y	CARBON RESISTOR
⚠	R871	QRD149J-5R6S	CARBON RESISTOR
	R872	QRD161J-563Y	CARBON RESISTOR
	R873	QRD161J-563Y	CARBON RESISTOR
⚠	R874	QRD149J-100S	CARBON RESISTOR
	R875	QRD161J-122Y	CARBON RESISTOR
	R876	QRD161J-152Y	CARBON RESISTOR
	R877	QRD161J-102Y	CARBON RESISTOR
	R878	QRD161J-473Y	CARBON RESISTOR
	R879	QRD161J-471Y	CARBON RESISTOR
	R880	QRD161J-272Y	CARBON RESISTOR
	R881	QRD161J-752Y	CARBON RESISTOR
	R882	QRD161J-152Y	CARBON RESISTOR
	R883	QRD161J-152Y	CARBON RESISTOR
	R884	QRD161J-223Y	CARBON RESISTOR
	R885	QRD161J-103Y	CARBON RESISTOR
	R886	QRD161J-473Y	CARBON RESISTOR
⚠	R891	QRD149J-5R6S	CARBON RESISTOR
	R892	QRD161J-563Y	CARBON RESISTOR
	R893	QRD161J-563Y	CARBON RESISTOR
⚠	R894	QRD149J-100S	CARBON RESISTOR
	R895	QRD161J-122Y	CARBON RESISTOR
	R896	QRD161J-152Y	CARBON RESISTOR
	R897	QRD161J-102Y	CARBON RESISTOR
	R898	QRD161J-473Y	CARBON RESISTOR
	R899	QRD161J-471Y	CARBON RESISTOR
	R900	QRD161J-272Y	CARBON RESISTOR
	R901	QRD161J-752Y	CARBON RESISTOR
	R902	QRD161J-152Y	CARBON RESISTOR
	R903	QRD161J-152Y	CARBON RESISTOR
	R904	QRD161J-223Y	CARBON RESISTOR
	R905	QRD161J-103Y	CARBON RESISTOR
	R906	QRD161J-473Y	CARBON RESISTOR
	R909	QRD161J-102Y	CARBON RESISTOR
	R911	QRD161J-223Y	CARBON RESISTOR
	R912	QRD161J-223Y	CARBON RESISTOR
	R916	QRD161J-223Y	CARBON RESISTOR
	R917	QRD161J-223Y	CARBON RESISTOR
	R921	QRD161J-223Y	CARBON RESISTOR
	R922	QRD161J-222Y	CARBON RESISTOR
	R923	QRD161J-103Y	CARBON RESISTOR
	R924	QRD161J-101Y	CARBON RESISTOR
	R925	QRD161J-223Y	CARBON RESISTOR
	R951	QRD161J-223Y	CARBON RESISTOR

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	R952	QRD161J-223Y	CARBON RESISTOR
	R953	QRD161J-103Y	CARBON RESISTOR
	R954	QRD161J-103Y	CARBON RESISTOR
	R955	QRD161J-223Y	CARBON RESISTOR
	R956	QRD161J-103Y	CARBON RESISTOR
	R957	QRD161J-473Y	CARBON RESISTOR
	S601	QSP1A11-V01	TACT SWITCH
	S602	QSP1A11-V01	TACT SWITCH
	S603	QSP1A11-V01	TACT SWITCH
	S604	QSP1A11-V01	TACT SWITCH
	S605	QSP1A11-V01	TACT SWITCH
	S606	QSP1A11-V01	TACT SWITCH
	S607	QSP1A11-V01	TACT SWITCH
	S608	QSP1A11-V01	TACT SWITCH
	S609	QSP1A11-V01	TACT SWITCH
	S610	QSP1A11-V01	TACT SWITCH
	S611	QSP1A11-V01	TACT SWITCH
	S612	QSP1A11-V01	TACT SWITCH
	S613	QSP1A11-V01	TACT SWITCH
	S614	QSP1A11-V01	TACT SWITCH
	S615	QSP1A11-V01	TACT SWITCH
	S616	QSP1A11-V01	TACT SWITCH
	S617	QSP1A11-V01	TACT SWITCH
	S618	QSP1A11-V01	TACT SWITCH
	S619	QSS7A23-V05	SLIDE SWITCH
	S620	QSS7A23-V05	SLIDE SWITCH
	S621	QSS7A23-V05	SLIDE SWITCH
⚠	S701	QST8101-V04	PUSH SW
	VR101	QVPA604-502	V RESISTOR
	VR102	QVPA604-502	V RESISTOR
	VR103	QVP4A0B-104	V.RESISTOR
	VR104	QVP4A0B-104	V.RESISTOR
	VR105	QVPA604-502	V RESISTOR
	VR106	QVPA604-502	V RESISTOR
	VR107	QVPA604-502	V RESISTOR
	VR108	QVPA604-502	V RESISTOR
	VR201	QVPA604-502	V RESISTOR
	VR202	QVPA604-502	V RESISTOR
	VR203	QVP4A0B-104	V.RESISTOR
	VR204	QVP4A0B-104	V.RESISTOR
	VR205	QVPA604-502	V RESISTOR
	VR206	QVPA604-502	V RESISTOR
	VR207	QVPA604-502	V RESISTOR
	VR208	QVPA604-502	V RESISTOR
	VR501	QVPE602-502	V RESISTOR
	VR502	QVPE602-502	V RESISTOR
	VR503	QVPE602-502	V RESISTOR
	VR504	QVPE602-502	V RESISTOR
	VR801	QVZ5503-V03	V.RESISTOR
	VR802	QVZ5204-V04	V.RESISTOR

■ LCD Board

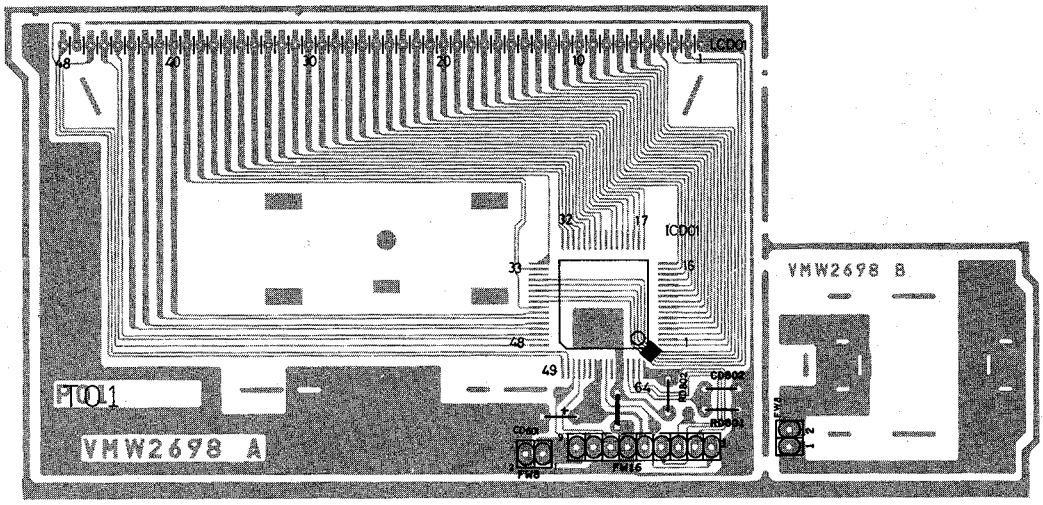


Fig. 10-3

LCD Board Parts List

⚠	REF. NO	PARTS NO.	PARTS NAME
	CD801	QETB1AM-107N	E.CAPACITOR
	CD802	QFN81HJ-102	M CAPACITOR
	ICD01	LC7583A	IC
	LCD01	VGL1043-001	LCD PANEL
	LHD01	E45524-002	FUSE CLIP
	LHD02	E45524-002	FUSE CLIP
	RD801	QRD144J-473S	CARBON RESISTOR

■ Power Supply Board

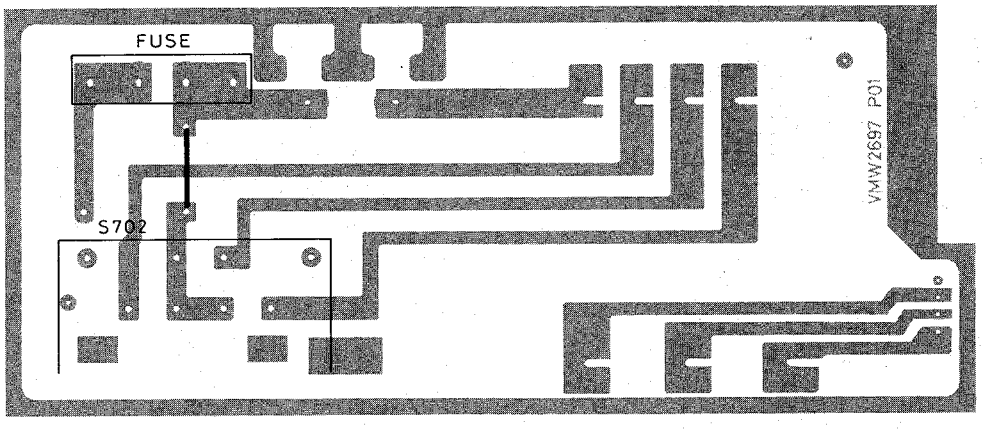


Fig. 10-4

Power Supply Board Parts List

⚠	REF. NO	PARTS NO.	PARTS NAME
⚠	FUSE	VMZ0043-001S	FUSE CLAMP
⚠	S702	QSS2325-115	SLIDE SW

11 Exploded View of Enclosure Assembly

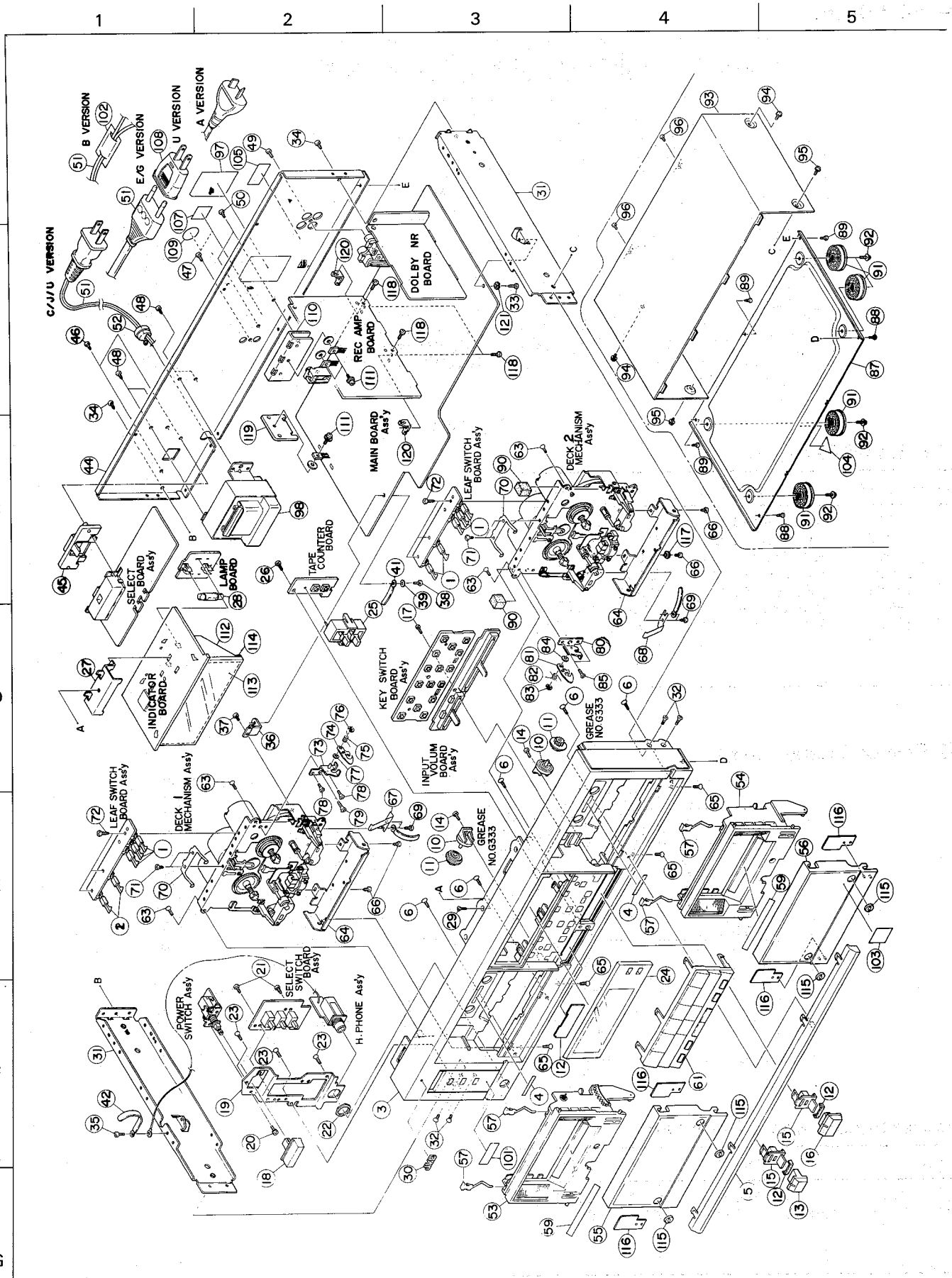


Fig. 11-1

Enclosure Assembly Parts List

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VSH1140-002	LEAF SWITCH		10
	3	VJC1693-009	FRONT PANEL	TD-W999A/B/C/E/G/U	1
		VJC1693-010UL	FRONT PANEL	TD-W999J	1
	4	VJD4024-001	REFLECTION PLAT		2
	5	VJD2329-002	ESCUTCHEON		1
	6	SSSF2608N	SCREW	ESCUTCHEON+F.PANEL	5
	10	VYH5602-002	DAMP HOLDER		2
	11	VYH5601-002	GEAR		2
	12	VYSA1R2-025	SPACER		2
	13	VXS4304-001	SLIDE KNOB		1
	14	SDSF3010Z	TAP.SCREW	DUNP HOLDER	2
	15	VKS5122-003	SLIDER		2
	16	VXS3027-001	SLIDE KNOB	FOR INPUT LEVEL	1
	17	SDSF2608Z	SCREW	INPUT VOL.PCB+F.PANE	1
	18	E72789-001	PUSH KNOB	POWER	1
	19	VKL6459-001	POWER BRACKET		1
	20	LPSP3006Z	SCREW	PUSH SW+P.BRACKET	1
	21	SDST2606Z	SCREW	POWER BKT+S.SW PCB	2
	22	VKZ4150-001	SPECIAL NUT	H.PHONE JACK	1
	23	SSSF3010Z	SCREW	POWER BKT+F.PANEL	3
	24	VJK3439-002	FINDER		1
	25	VXP4775-001	PUSH KNOB	COUNTER RESET	1
	26	SDSF3008Z	SCREW	C.RESET PCB+F.PANEL	1
	27	VKL6474-001	PWB BRACKET		1
	28	VGZ0001-031	LAMP		1
	29	SSST3006Z	SCREW	FRONT PANEL+PCB BKT	1
	30	E72968-001	JVC MARK		1
	31	VKL2388-002	SIDE CHASSIS		2
	32	SSST3006Z	SCREW	F.PANEL+SIDE CHASSIS	4
	33	SDST3006Z	SCREW	S.CHASSIS+AMP PCB	1
	34	SDST3006M	SCREW	S.CHASSIS+REAR PANEL	2
	35	SDST3006Z	SCREW	S.CHASSIS+WIRE HOLDE	1
	36	VKL6460-001	AMP.BRACKET		1
	37	SDST2605Z	SCREW	AMP BKT+FM BKT	1
	38	SDST3006Z	SCREW	AMP PCB+AMP BKT	1
	39	WBS3000N	WASHER	AMP PCB+AMP BKT	1
	41	VKZ4001-007	WIRE CLAMP	AMP PCB+AMP BKT	1
	42	VKZ4001-011	WIRE HOLDER		1
	44	VJC2325-001	REAR PANEL	TD-W999C/J	1
		VJC2325-002	REAR PANEL	TD-W999A/B/E/G/U	1
	45	VKS5011-001	VOLTAGE CONTACT	TD-W999A/B/E/G/U	1
	46	SDSF3008M	SCREW	TD-W999A/B/E/G/U	2
	47	SDSF3008M	SCREW	VOL CONTACT+R.PANEL	1
	48	SDST3006M	SCREW	VOL CONTACT+R.PANEL	4
	49	SDSF3008M	SCREW	VOL CONTACT+R.PANEL	1
	50	SDSF3008M	SCREW	VOL CONTACT+R.PANEL	2
⚠	51	QMP1200-200	POWER CORD	TD-W999C/J	1
⚠		QMP2560-200	POWER CORD	TD-W999A	1
⚠		QMP3900-200	POWER CORD	TD-W999E/G	1
⚠		QMP7380-200	POWER CORD	TD-W999U	1
⚠		QMP9017-008BS	POWER CORD	TD-W999B	1
⚠	52	QHS3876-162	S.R.BUSHING	TD-W999C/J	1
⚠		QHS6374-162	CORD STOPPER	TD-W999A/E/G/U	1
⚠		QHS6374-162BS	CORD STOPPER	TD-W999B	1
	53	VJT2179-005	CASSETTE DOOR	1 MECHA	1

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	54	VJT2179-006	CASSETTE DOOR	2 MECHA	1
	55	VJT2188-003	CASSETTE LID	1 MECHA	1
	56	VJT2188-004	CASSETTE LID	2 MECHA	1
	57	VKY4180-001	CASSETTE SPRING	CASSETTE DOOR	4
	59	VJD5143-005	HOLDER PLATE	CASSETTE DOOR	2
	61	VXP4770-00C	MECHA BUTTON AS		1
	63	SSSF3010Z	SCREW	MECHA+FRONT PANEL	4
	64	VKL3883-001	MECHA.BRACKET		2
	65	SSST3008Z	SCREW	MECHA BKT+F.PANEL	4
	66	SDST2605Z	SCREW	MECHA+MECHA BRACKET	4
	67	VKY4497-002	HOLDER SPRING	1 MECHA	1
	68	VKY4497-003	HOLDER SPRING	2 MECHA	1
	69	SDST2605Z	SCREW	MECHA+H.SPRING	4
	70	VKY4279-001	PACK SPRING		2
	71	SDST2605Z	SCREW	MECHA+P.SPRING	4
	72	SDST2608Z	SCREW	MECHA+L.SW PCB	5
	73	VKL6073-00A	LOCK BKT ASS'Y		1
	74	VKL5342-003	LOCK CAM(A)		1
	75	VKW3006-073	SPRING		1
	76	REE2000X	E.RING		1
	77	QO3093-115	NYLON WASHER		1
	78	SSST2605Z	SCREW	LOCK BKT+MECHA	2
	79	SSSF3010Z	SCREW	LOCK BKT+DISK BASE	1
	80	VKL6461-00A	LOCK BKT ASS'Y		1
	81	VKL5345-003	LOCK CAM (B)		1
	82	VKW3006-074	SPRING		1
	83	REE2000X	E.RING		1
	84	VYSS2R5-016	N.WASHER		1
	85	SSST2605Z	SCREW	LOCK BKT+MECHA	2
	87	VJC1695-001	BOTTOM COVER		1
	88	SDSF3008Z	SCREW	BOTTOM+FRONT PANEL	2
	89	SDST3006Z	SCREW	BOTTOM+REAR PANEL	3
	90	VYSR112-006	SPACER	MECHA CHASSIS	2
	91	E74205-002	FOOT ASS'Y	BOTTOM COVER	4
	92	GBST3008Z	TH.TAP.SCREW	FOOT ASS'Y+B.COVER	4
	93	VJC1694-001	TOP COVER		1
	94	VKZ3001-004	SPECIAL SCREW	T.COVER+S.CHASSIS	2
	95	VKZ3001-004	SPECIAL SCREW	T.COVER+S.CHASSIS	2
	96	SDST3006M	SCREW	TOP COVER+R.PANEL	2
⚠	97	VYN2223-002PA	NAME PLATE	TD-W999A/B/G	1
⚠		VYN2223-004PA	NAME PLATE	TD-W999C	1
⚠		VYN2223-005PA	NAME PLATE	TD-W999E	1
⚠		VYN2223-006PA	NAME PLATE	TD-W999J	1
⚠		VYN2223-007PA	NAME PLATE	TD-W999U	1
⚠	98	VTP54A3-051BN	POWER TRANS	TD-W999C/J/U	1
⚠		VTP54C3-061B	POWER TRANS	TD-W999A/B/G	1
		VTP54C3-061BBS	POWER TRANS	TD-W999B	1
	101	TJL000420-01	CAUTION LABEL	TD-W999B	1
	102	QZL1002-003	WARNING LABEL	TD-W999B	1
	103	VNC5004-001	MARK STICKER	TD-W999B/E/G	1
	104	VND4113-001	G.CAUTION CARD	TD-W999B/J	1
	105	VND4205-004	CAUTION LABEL	TD-W999B	1
	107	T44362-001	CSA LABEL	TD-W999C	1
	108	VO4062-001	CONTI.PLUG	TD-W999U	1

12 Exploded View of Mechanism Assembly

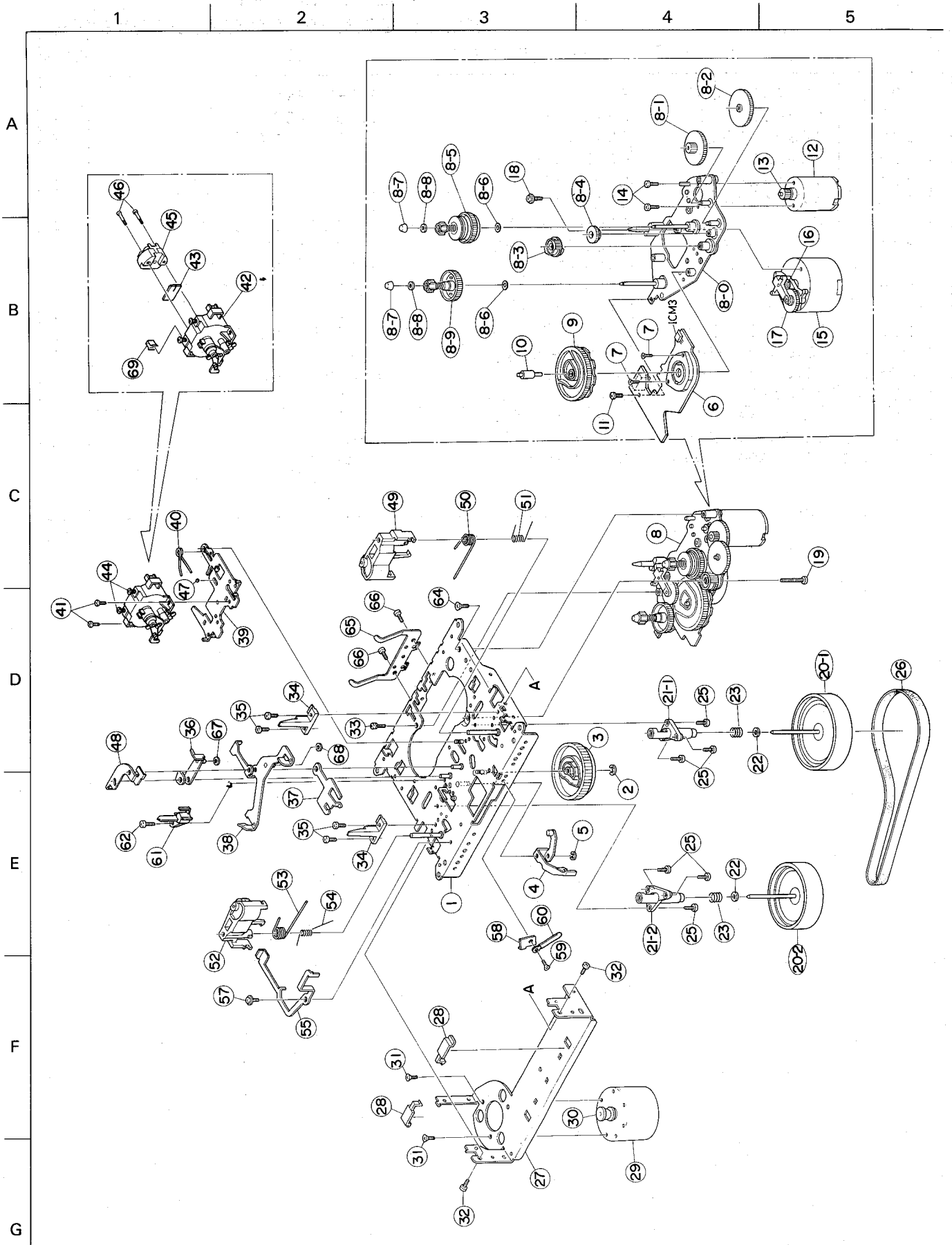


Fig. 12-1

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	109	VND4037-002	F MARK	TD-W999G	1
	110	VMH4011-002	HEAT SINK	Q701,703	1
	111	DPSP3008Z	SCREW	HEAT SINK	3
	112	VKM3150-001	REFLECTOR		1
	113	VYTT488-005	LCD SHEET		1
	114	VYSH102-052	SPACER		1
	115	VJD4954-001	ESCUTCHEON	CASSETTE LID	4
	116	VJD5160-001	CASSETTE BLIND	CASSETTE LID	4
	117	Q03093-817	WASHER	MECHA BRACKET	1
	118	SDST3004Z	SCREW	REC PCB+BRACKET	4
	119	VKL5002-001	HEAT SINK	Q705	1
	120	VYH4638-001	BRACKET	AMP & REC PCB	2
	3,4,24,30	ZCTDW999J-FBK	Front panel Ass'y	J only	1
	3,4,24,30	ZCTDW999K-FBK	Front panel Ass'y	Except J version	1
	53,57,59	ZCTDW999K-CH-1	Cassette holder Ass'y	Deck1	1
	54,57,59	ZCTDW999K-CH-2	Cassette holder Ass'y	Deck2	1
	55,115,116	ZCTDW999K-CLBK1	Cassette Lid Ass'y	Deck1	1
	56,115,116	ZCTDW999K-CLBK2	Cassette Lid Ass'y	Deck2	1

Mechanism Component Parts List

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VKL2449-00A	CHASSIS BS ASY		1
	2	REE2000X	E.RING		1
	3	VKS2186-003	P.ROLLER CAM		1
	4	VKL5333-00E	HEAD LEVER ASY		1
	5	REE1500X	E.RING		1
	6	VKZ3153-00B	CAM SWITCH ASY.	CAM SWITCH	1
	7	SSST2006Z	TAP.SCREW		2
	8	VKL2376-00B	DISK BASE UNIT		1
	8-0	VKL2375-002	DISK BASE		1
	8-1	VKR4527-001	HELICAL GEAR		1
	8-2	VKR3001-002	GEAR(2)		1
	8-3	VKR3145-002	CAM GEAR		1
	8-4	VKR4516-001	GEAR		1
	8-5	VKR4519-00A	REEL DISK ASS'Y		1
	8-6	VKZ4003-010	FELT	BACK TENSION	1
		VKZ4003-010	FELT	BACK TENSION	1
	8-7	VKS4131-001	REEL STOPPER		1
		VKS4131-001	REEL STOPPER		1
	8-8	VKR4170-001	RING		1
		VKR4170-001	RING		1
	8-9	VKR4518-00A	REEL DISK ASS'Y		1
	9	VKS2188-003	HEAD BASE CAM		1
	10	VKH5192-001	CAM SHAFT		1
	11	SDST2604Z	SCREW	CAM SW	1
⚠	12	MDH2B10	D.C.MOTOR	M5 CAM	1
	13	VKR4528-001	MOTOR GEAR	CAM MOTOR	1
	14	SPSP3005Z	SCREW	CAM MOTOR	2
⚠	15	MMN-6F4RA88	D.C.MOTOR	M6 REEL	1
	16	VKR3000-003	GEAR(1)	REEL MOTOR	1
	17	VKS4503-00D	F/R.ARM ASS'Y		1
	18	SWSP2608Z	SCREW	REEL MOTOR	1
	19	SDSR2610Z	SCREW	D.BASE UNIT	1
	20-1	VKF3154-00A	FLYWHEEL ASS'Y		1
	20-2	VKF3151-00A	FLYWHEEL ASS'Y	REVERSE	1
	21-1	VKF4122-00E	CAPSTAN METAL		1
	21-2	VKF4122-00F	CAPS.METAL ASY	REVERSE	1
	22	VKZ4035-010	WASHER	THRUST	2
	23	VKW3001-241	SPRING(THRUST)	THRUST	2
	25	SDST2605Z	SCREW	FLYWHEEL ASS'Y	6
	26	VKB3001-034	BELT		1
	27	VKL3682-001	F.M.BRACKET		1
	28	VKS4437-001	THRUST PLATE		2
⚠	29	SHW2L52	D.C.MOTOR	M4 CAPSTAN	1
	30	VKR4364-002	MOTOR PULLEY		1
	31	SSSP2604Z	SCREW	CAPSTAN MOTOR	2
	32	SDST2606Z	SCREW	F.M.BRACKET	2
	33	LPSP2614Z	SCREW	REEL MOTOR	1
	34	VKS4901-002	CASSETTE GUIDE		2
	35	SDST2606Z	SCREW	CASSETTE GUIDE	4
	36	VKL5316-00F	H.BASE ARM ASY		1
	37	VKL5318-003	HEAD ARM		1
	38	VKL3413-00E	P.R.LEVER ASY		1
	39	VKL3683-004	HEAD BASE		1
	40	VKW4467-004	TORSION SPRING		1
	41	KPSP2004Z	SCREW		2

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	42	VKS3349-00D	H.MOUNTBASE ASY	ASS'Y PARTS	1
	43	VYTH468-001	SPACER		1
	44	VKZ4514-001	SPECIAL SCREW		2
	45	VGH0425-536	R/P & E HEAD	H2	1
	46	VKZ4291-005	HEAD SCREW		2
	47	T41615-004	STEEL BALL	HEAD BASE	1
	48	VKY4425-002	SPRING PLATE	HEAD BASE	1
	49	VKP4169-00H	P.R.ARM ASY.(R)		1
	50	VKW3006-130	TORSION SPRING	PINCH ROLLER	1
	51	VKW3006-057	TORSION SPRING	RETURN	1
	52	VKP4171-00G	P.R.ARM ASY (L)	LEFT	1
	53	VKW3006-131	TORSION SPRING	PINCH ROLLER	1
	54	VKW3006-143	TORSION SPRING	RETURN	1
	55	VKL5492-003	DOOR SAFETY		1
	57	VKZ4323-001	SCREW	2 MECHA ONLY	1
	58	VKL5398-001	BRACKET	2 MECHA ONLY	1
	59	SSST2605Z	SCREW		1
	60	VKZ4001-009	WIRE HOLDER		1
	61	SPI-302	REFLECTOR		1
	62	SDST2606Z	SCREW		1
	64	SSSF3010Z	SCREW		1
	65	VKY4279-001	PACK SPRING		1
	66	SDST2605Z	SCREW		2
	67	VKH3000-058	COLLAR		1
	68	VKH3000-058	COLLAR		1
	69	VKY4547-001	MIRROR		1
	ICM3	DN6851A	HALL IC		1

14 Accessories

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
		VNN2223-661	INST BOOK		1
		VMP0039-00D	PIN CORD		1
		BT20025J	WARRANTY CARD	TD-W999C	1
		BT20029C	WARRANTY CARD	TD-W999A	1
		BT20047C	WARRANTY CARD	TD-W999J/U	1
		BT20060	WARRANTY CARD	TD-W999B	1
		BT20064A	WARRANTY CARD	TD-W999G FOR JED	1
		BT20066	WARRANTY CARD	TD-W999B/G	1
		BT20098	WARRANTY CARD	TD-W999A	1
		TCP-3304	AUDIO TAPE PAMP		1
		VNC2200-019	COPYRIGHT LAW W	TD-W999A/B/C/E/U	1
		EWP805-001E	REMOTE WIRE		1
		E43486-340A	SAFTY INST SHEE	TD-W999B	1
		BT20071A	SVC CENTRE LIST	TD-W999C	1
		BT20044E	SAFETY GUIDE	TD-W999J	1
		BT20046C	SPECIAL R.CARD	TD-W999J/U	1
		VNC5311-203	CAUTION CARD	TD-W999U FOR EES	1
		VNC5311-204	CAUTION CARD	TD-W999U	1

JVC

VICTOR COMPANY OF JAPAN, LIMITED.
AUDIO PRODUCTS DIVISION MAEBASHI PLANT 10-1, 1-chome, Ohwatari-cho, Maebashi-city 371, Japan

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13 Packing and Packing Parts List

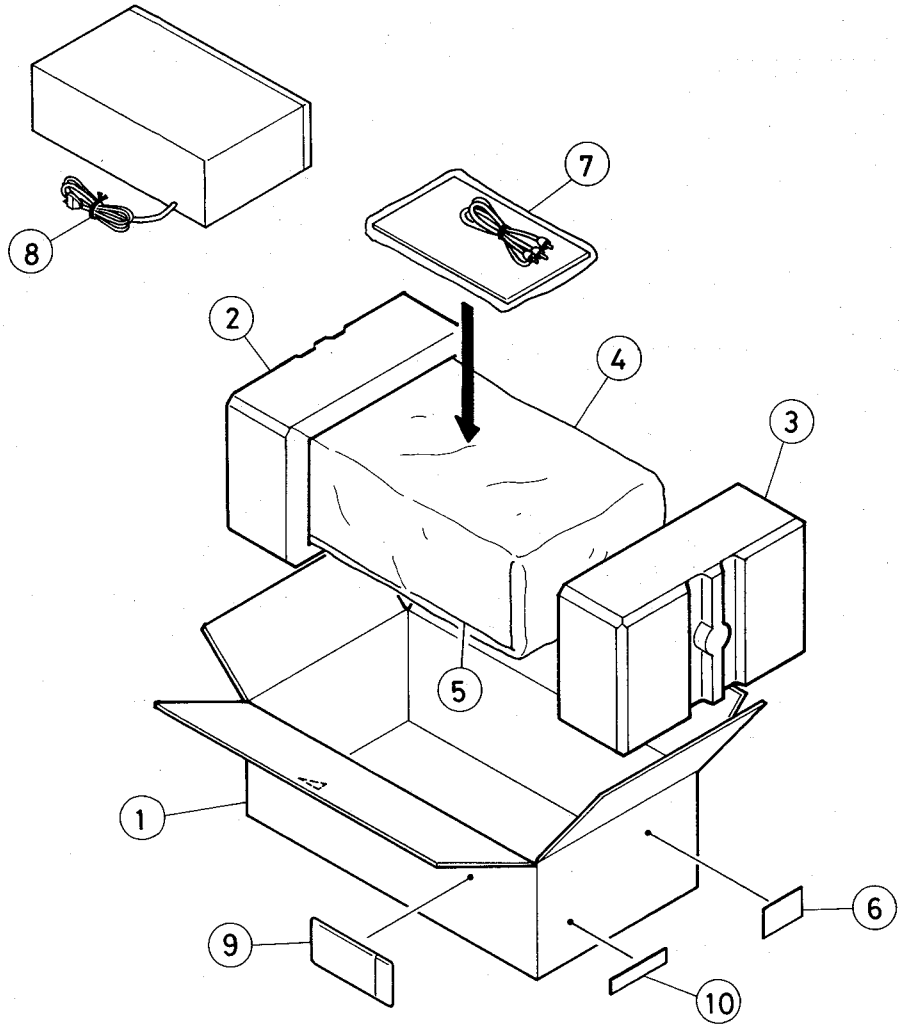

Fig. 13-1

Packing Parts List

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VPC2223-002	CARTON		1
	2	VPH2344-001	CUSHION(L)	FOR LEFT	1
	3	VPH2345-001	CUSHION(R)	FOR RIGHT	1
	4	VPE3005-026	POLY BAG	FOR UNIT	1
	5	TKS000501-08	SHEET		1
	6	VND3044-001	S.TICKET (WT)	TD-W999A	1
		VND3044-002	S.TICKET (OR)	TD-W999J	2
		VND3044-003	S.TICKET (BU)	TD-W999E	1
		VND3044-004	S.TICKET (GR)	TD-W999B	1
		VND3044-005	S.TICKET (RD)	TD-W999G	1
		VND3044-006	SERIAL TICKET	TD-W999C	2
	7	VPE3005-007	POLY BAG	FOR INSTRUCTION BOOK	1
	8	Q04141H	WIRE CLAMP	FOR POWER CORD	1
	9	E66416-003	ENVELOPE	TD-W999J/U WARRANTY	1
	10	VND4909-001	VOLTAGE LABEL	TD-W999U	1